



SEQUENCE LISTING

<110> CHEN, JIE
HU, LIPING
LIU, TONG HUA
LU, ZHAO HUI
SHEN, YAN

<120> SPECIFIC MARKERS FOR PANCRATIC CANCER

<130> 21525

<140> 10/733,969

<141> 2003-12-11

<150> EP 02028058.2

<151> 2002-12-17

<160> 110

<170> PatentIn version 3.2

<210> 1

<211> 412

<212> PRT

<213> Homo sapiens

<220>

<223> Cathepsin D precursor; Accession NO: as of
06 Dec 2002: P07339

<400> 1

Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala
1 5 10 15

Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile
20 25 30

Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
35 40 45

Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
50 55 60

Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
65 70 75 80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
85 90 95

Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
100 105 110

Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser
 115 120 125
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
 130 135 140
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
 145 150 155 160
 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg
 165 170 175
 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala
 180 185 190
 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val
 195 200 205
 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val
 210 215 220
 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln
 225 230 235 240
 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys
 245 250 255
 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val
 260 265 270
 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu
 275 280 285
 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro
 290 295 300
 Val Asp Glu Val Arg Glu Leu Gln Lys Ala Ile Gly Ala Val Pro Leu
 305 310 315 320
 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro
 325 330 335
 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu
 340 345 350
 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Leu Cys Leu Ser
 355 360 365
 Gly Phe Met Gly Met Asp Ile Pro Pro Pro Ser Gly Pro Leu Trp Ile
 370 375 380
 Leu Gly Asp Val Phe Ile Gly Arg Tyr Tyr Thr Val Phe Asp Arg Asp
 385 390 395 400

Asn Asn Arg Val Gly Phe Ala Glu Ala Ala Arg Leu
 405 410

<210> 2

<211> 414

<212> PRT

<213> Homo sapiens

<220>

<223> Isocitrate dehydrogenase [NADP] cytoplasmic;
 Accession NO: as of 06 Dec 2002: 075874

<400> 2

Met Ser Lys Lys Ile Ser Gly Gly Ser Val Val Glu Met Gln Gly Asp
 1 5 10 15

Glu Met Thr Arg Ile Ile Trp Glu Leu Ile Lys Glu Lys Leu Ile Phe
 20 25 30

Pro Tyr Val Glu Leu Asp Leu His Ser Tyr Asp Leu Gly Ile Glu Asn
 35 40 45

Arg Asp Ala Thr Asn Asp Gln Val Thr Lys Asp Ala Ala Glu Ala Ile
 50 55 60

Lys Lys His Asn Val Gly Val Lys Cys Ala Thr Ile Thr Pro Asp Glu
 65 70 75 80

Lys Arg Val Glu Glu Phe Lys Leu Lys Gln Met Trp Lys Ser Pro Asn
 85 90 95

Gly Thr Ile Arg Asn Ile Leu Gly Gly Thr Val Phe Arg Glu Ala Ile
 100 105 110

Ile Cys Lys Asn Ile Pro Arg Leu Val Ser Gly Trp Val Lys Pro Ile
 115 120 125

Ile Ile Gly Arg His Ala Tyr Gly Asp Gln Tyr Arg Ala Thr Asp Phe
 130 135 140

Val Val Pro Gly Pro Gly Lys Val Glu Ile Thr Tyr Thr Pro Ser Asp
 145 150 155 160

Gly Thr Gln Lys Val Thr Tyr Leu Val His Asn Phe Glu Glu Gly Gly
 165 170 175

Gly Val Ala Met Gly Met Tyr Asn Gln Asp Lys Ser Ile Glu Asp Phe
 180 185 190

Ala His Ser Ser Phe Gln Met Ala Leu Ser Lys Gly Trp Pro Leu Tyr
 195 200 205

Leu Ser Thr Lys Asn Thr Ile Leu Lys Lys Tyr Asp Gly Arg Phe Lys
 210 215 220

Asp Ile Phe Gln Glu Ile Tyr Asp Lys Gln Tyr Lys Ser Gln Phe Glu
 225 230 235 240

Ala Gln Lys Ile Trp Tyr Glu His Arg Leu Ile Asp Asp Met Val Ala
 245 250 255

Gln Ala Met Lys Ser Glu Gly Gly Phe Ile Trp Ala Cys Lys Asn Tyr
 260 265 270

Asp Gly Asp Val Gln Ser Asp Ser Val Ala Gln Gly Tyr Gly Ser Leu
 275 280 285

Gly Met Met Thr Ser Val Leu Val Cys Pro Asp Gly Lys Thr Val Glu
 290 295 300

Ala Glu Ala Ala His Gly Thr Val Thr Arg His Tyr Arg Met Tyr Gln
 305 310 315 320

Lys Gly Gln Glu Thr Ser Thr Asn Pro Ile Ala Ser Ile Phe Ala Trp
 325 330 335

Thr Arg Gly Leu Ala His Arg Ala Lys Leu Asp Asn Asn Lys Glu Leu
 340 345 350

Ala Phe Phe Ala Asn Ala Leu Glu Glu Val Ser Ile Glu Thr Ile Glu
 355 360 365

Ala Gly Phe Met Thr Lys Asp Leu Ala Ala Cys Ile Lys Gly Leu Pro
 370 375 380

Asn Val Gln Arg Ser Asp Tyr Leu Asn Thr Phe Glu Phe Met Asp Lys
 385 390 395 400

Leu Gly Glu Asn Leu Lys Ile Lys Leu Ala Gln Ala Lys Leu
 405 410

<210> 3

<211> 782

<212> PRT

<213> Homo sapiens

<220>

<223> Gelsolin precursor, plasma; Accession NO: as of
 06 Dec 2002: P06396

<400> 3

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Ala	Leu	Cys	Ala	Leu	Ser	Leu	Pro	Val	Arg	Ala	Ala	Thr	Ala	Ser	Arg	20	25	30
Gly	Ala	Ser	Gln	Ala	Gly	Ala	Pro	Gln	Gly	Arg	Val	Pro	Glu	Ala	Arg	35	40	45
Pro	Asn	Ser	Met	Val	Val	Glu	His	Pro	Glu	Phe	Leu	Lys	Ala	Gly	Lys	50	55	60
Glu	Pro	Gly	Leu	Gln	Ile	Trp	Arg	Val	Glu	Lys	Phe	Asp	Leu	Val	Pro	65	70	75
Val	Pro	Thr	Asn	Leu	Tyr	Gly	Asp	Phe	Phe	Thr	Gly	Asp	Ala	Tyr	Val	85	90	95
Ile	Leu	Lys	Thr	Val	Gln	Leu	Arg	Asn	Gly	Asn	Leu	Gln	Tyr	Asp	Leu	100	105	110
His	Tyr	Trp	Leu	Gly	Asn	Glu	Cys	Ser	Gln	Asp	Glu	Ser	Gly	Ala	Ala	115	120	125
Ala	Ile	Phe	Thr	Val	Gln	Leu	Asp	Asp	Tyr	Leu	Asn	Gly	Arg	Ala	Val	130	135	140
Gln	His	Arg	Glu	Val	Gln	Gly	Phe	Glu	Ser	Ala	Thr	Phe	Leu	Gly	Tyr	145	150	155
Phe	Lys	Ser	Gly	Leu	Lys	Tyr	Lys	Lys	Gly	Gly	Val	Ala	Ser	Gly	Phe	165	170	175
Lys	His	Val	Val	Pro	Asn	Glu	Val	Val	Val	Gln	Arg	Leu	Phe	Gln	Val	180	185	190
Lys	Gly	Arg	Arg	Val	Val	Arg	Ala	Thr	Glu	Val	Pro	Val	Ser	Trp	Glu	195	200	205
Ser	Phe	Asn	Asn	Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Asn	Asn	Ile	210	215	220
His	Gln	Trp	Cys	Gly	Ser	Asn	Ser	Asn	Arg	Tyr	Glu	Arg	Leu	Lys	Ala	225	230	235
Thr	Gln	Val	Ser	Lys	Gly	Ile	Arg	Asp	Asn	Glu	Arg	Ser	Gly	Arg	Ala	245	250	255
Arg	Val	His	Val	Ser	Glu	Glu	Gly	Thr	Glu	Pro	Glu	Ala	Met	Leu	Gln	260	265	270
Val	Leu	Gly	Pro	Lys	Pro	Ala	Leu	Pro	Ala	Gly	Thr	Glu	Asp	Thr	Ala	275	280	285
Lys	Glu	Asp	Ala	Ala	Asn	Arg	Lys	Leu	Ala	Lys	Leu	Tyr	Lys	Val	Ser	290	295	300

Asn Gly Ala Gly Thr Met Ser Val Ser Leu Val Ala Asp Glu Asn Pro
 305 310 315 320
 Phe Ala Gln Gly Ala Leu Lys Ser Glu Asp Cys Phe Ile Leu Asp His
 325 330 335
 Gly Lys Asp Gly Lys Ile Phe Val Trp Lys Gly Lys Gln Ala Asn Thr
 340 345 350
 Glu Glu Arg Lys Ala Ala Leu Lys Thr Ala Ser Asp Phe Ile Thr Lys
 355 360 365
 Met Asp Tyr Pro Lys Gln Thr Gln Val Ser Val Leu Pro Glu Gly Gly
 370 375 380
 Glu Thr Pro Leu Phe Lys Gln Phe Phe Lys Asn Trp Arg Asp Pro Asp
 385 390 395 400
 Gln Thr Asp Gly Leu Gly Leu Ser Tyr Leu Ser Ser His Ile Ala Asn
 405 410 415
 Val Glu Arg Val Pro Phe Asp Ala Ala Thr Leu His Thr Ser Thr Ala
 420 425 430
 Met Ala Ala Gln His Gly Met Asp Asp Asp Gly Thr Gly Gln Lys Gln
 435 440 445
 Ile Trp Arg Ile Glu Gly Ser Asn Lys Val Pro Val Asp Pro Ala Thr
 450 455 460
 Tyr Gly Gln Phe Tyr Gly Gly Asp Ser Tyr Ile Ile Leu Tyr Asn Tyr
 465 470 475 480
 Arg His Gly Gly Arg Gln Gly Gln Ile Ile Tyr Asn Trp Gln Gly Ala
 485 490 495
 Gln Ser Thr Gln Asp Glu Val Ala Ala Ser Ala Ile Leu Thr Ala Gln
 500 505 510
 Leu Asp Glu Glu Leu Gly Gly Thr Pro Val Gln Ser Arg Val Val Gln
 515 520 525
 Gly Lys Glu Pro Ala His Leu Met Ser Leu Phe Gly Gly Lys Pro Met
 530 535 540
 Ile Ile Tyr Lys Gly Gly Thr Ser Arg Glu Gly Gly Gln Thr Ala Pro
 545 550 555 560
 Ala Ser Thr Arg Leu Phe Gln Val Arg Ala Asn Ser Ala Gly Ala Thr
 565 570 575
 Arg Ala Val Glu Val Leu Pro Lys Ala Gly Ala Leu Asn Ser Asn Asp
 580 585 590

Ala Phe Val Leu Lys Thr Pro Ser Ala Ala Tyr Leu Trp Val Gly Thr
595 600 605

Gly Ala Ser Glu Ala Glu Lys Thr Gly Ala Gln Glu Leu Leu Arg Val
610 615 620

Leu Arg Ala Gln Pro Val Gln Val Ala Glu Gly Ser Glu Pro Asp Gly
625 630 635 640

Phe Trp Glu Ala Leu Gly Gly Lys Ala Ala Tyr Arg Thr Ser Pro Arg
645 650 655

Leu Lys Asp Lys Lys Met Asp Ala His Pro Pro Arg Leu Phe Ala Cys
660 665 670

Ser Asn Lys Ile Gly Arg Phe Val Ile Glu Glu Val Pro Gly Glu Leu
675 680 685

Met Gln Glu Asp Leu Ala Thr Asp Asp Val Met Leu Leu Asp Thr Trp
690 695 700

Asp Gln Val Phe Val Trp Val Gly Lys Asp Ser Gln Glu Glu Glu Lys
705 710 715 720

Thr Glu Ala Leu Thr Ser Ala Lys Arg Tyr Ile Glu Thr Asp Pro Ala
725 730 735

Asn Arg Asp Arg Arg Thr Pro Ile Thr Val Val Lys Gln Gly Phe Glu
740 745 750

Pro Pro Ser Phe Val Gly Trp Phe Leu Gly Trp Asp Asp Asp Tyr Trp
755 760 765

Ser Val Asp Pro Leu Asp Arg Ala Met Ala Glu Leu Ala Ala
770 775 780

<210> 4

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<223> Complement factor B precursor; Accession NO: as of
06 Dec 2002: P00751

<400> 4

Met Gly Ser Asn Leu Ser Pro Gln Leu Cys Leu Met Pro Phe Ile Leu
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Gly Leu Leu Ser Gly Gly Val Thr Thr Thr Pro Trp Ser Leu Ala Arg
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Leu Pro Pro Thr Thr Thr Cys Gln Gln Gln Lys Glu Glu Leu Leu Pro
 610 615 620
 Ala Gln Asp Ile Lys Ala Leu Phe Val Ser Glu Glu Glu Lys Lys Leu
 625 630 635 640
 Thr Arg Lys Glu Val Tyr Ile Lys Asn Gly Asp Lys Lys Gly Ser Cys
 645 650 655
 Glu Arg Asp Ala Gln Tyr Ala Pro Gly Tyr Asp Lys Val Lys Asp Ile
 660 665 670
 Ser Glu Val Val Thr Pro Arg Phe Leu Cys Thr Gly Gly Val Ser Pro
 675 680 685
 Tyr Ala Asp Pro Asn Thr Cys Arg Gly Asp Ser Gly Gly Pro Leu Ile
 690 695 700
 Val His Lys Arg Ser Arg Phe Ile Gln Val Gly Val Ile Ser Trp Gly
 705 710 715 720
 Val Val Asp Val Cys Lys Asn Gln Lys Arg Gln Lys Gln Val Pro Ala
 725 730 735
 His Ala Arg Asp Phe His Ile Asn Leu Phe Gln Val Leu Pro Trp Leu
 740 745 750
 Lys Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu
 755 760

<210> 5
 <211> 911
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Alpha-actinin 4; Accession NO: 043707

<400> 5
 Met Val Asp Tyr His Ala Ala Asn Gln Ser Tyr Gln Tyr Gly Pro Ser
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 Ser Ala Gly Asn Gly Ala Gly Gly Gly Gly Ser Met Gly Asp Tyr Met
 20 25 30
 Ala Gln Glu Asp Asp Trp Asp Arg Asp Leu Leu Leu Asp Pro Ala Trp
 35 40 45
 Glu Lys Gln Gln Arg Lys Thr Phe Thr Ala Trp Cys Asn Ser His Leu
 50 55 60
 Arg Lys Ala Gly Thr Gln Ile Glu Asn Ile Asp Glu Asp Phe Arg Asp
 65 70 75 80

Gly	Leu	Lys	Leu	Met	Leu	Leu	Leu	Glu	Val	Ile	Ser	Gly	Glu	Arg	Leu	85	90	95
Pro	Lys	Pro	Glu	Arg	Gly	Lys	Met	Arg	Val	His	Lys	Ile	Asn	Asn	Val	100	105	110
Asn	Lys	Ala	Leu	Asp	Phe	Ile	Ala	Ser	Lys	Gly	Val	Lys	Leu	Val	Ser	115	120	125
Ile	Gly	Ala	Glu	Glu	Ile	Val	Asp	Gly	Asn	Ala	Lys	Met	Thr	Leu	Gly	130	135	140
Met	Ile	Trp	Thr	Ile	Ile	Leu	Arg	Phe	Ala	Ile	Gln	Asp	Ile	Ser	Val	145	150	155
Glu	Glu	Thr	Ser	Ala	Lys	Glu	Gly	Leu	Leu	Leu	Trp	Cys	Gln	Arg	Lys	165	170	175
Thr	Ala	Pro	Tyr	Lys	Asn	Val	Asn	Val	Gln	Asn	Phe	His	Ile	Ser	Trp	180	185	190
Lys	Asp	Gly	Leu	Ala	Phe	Asn	Ala	Leu	Ile	His	Arg	His	Arg	Pro	Glu	195	200	205
Leu	Ile	Glu	Tyr	Asp	Lys	Leu	Arg	Lys	Asp	Asp	Pro	Val	Thr	Asn	Leu	210	215	220
Asn	Asn	Ala	Phe	Glu	Val	Ala	Glu	Lys	Tyr	Leu	Asp	Ile	Pro	Lys	Met	225	230	235
Leu	Asp	Ala	Glu	Asp	Ile	Val	Asn	Thr	Ala	Arg	Pro	Asp	Glu	Lys	Ala	245	250	255
Ile	Met	Thr	Tyr	Val	Ser	Ser	Phe	Tyr	His	Ala	Phe	Ser	Gly	Ala	Gln	260	265	270
Lys	Ala	Glu	Thr	Ala	Ala	Asn	Arg	Ile	Cys	Lys	Val	Leu	Ala	Val	Asn	275	280	285
Gln	Glu	Asn	Glu	His	Leu	Met	Glu	Asp	Tyr	Glu	Lys	Leu	Ala	Ser	Asp	290	295	300
Leu	Leu	Glu	Trp	Ile	Arg	Arg	Thr	Ile	Pro	Trp	Leu	Glu	Asp	Arg	Val	305	310	315
Pro	Gln	Lys	Thr	Ile	Gln	Glu	Met	Gln	Gln	Lys	Leu	Glu	Asp	Phe	Arg	325	330	335
Asp	Tyr	Arg	Arg	Val	His	Lys	Pro	Pro	Lys	Val	Gln	Glu	Lys	Cys	Gln	340	345	350
Leu	Glu	Ile	Asn	Phe	Asn	Thr	Leu	Gln	Thr	Lys	Leu	Arg	Leu	Ser	Asn	355	360	365

Arg	Pro	Ala	Phe	Met	Pro	Ser	Glu	Gly	Lys	Met	Val	Ser	Asp	Ile	Asn	370	375	380	
Asn	Gly	Trp	Gln	His	Leu	Glu	Gln	Ala	Glu	Lys	Gly	Tyr	Glu	Glu	Trp	385	390	395	400
Leu	Leu	Asn	Glu	Ile	Arg	Arg	Leu	Glu	Arg	Leu	Asp	His	Leu	Ala	Glu	405	410	415	
Lys	Phe	Arg	Gln	Lys	Ala	Ser	Ile	His	Glu	Ala	Trp	Thr	Asp	Gly	Lys	420	425	430	
Glu	Ala	Met	Leu	Lys	His	Arg	Asp	Tyr	Glu	Thr	Ala	Thr	Leu	Ser	Asp	435	440	445	
Ile	Lys	Ala	Leu	Ile	Arg	Lys	His	Glu	Ala	Phe	Glu	Ser	Asp	Leu	Ala	450	455	460	
Ala	His	Gln	Asp	Arg	Val	Glu	Gln	Ile	Ala	Ala	Ile	Ala	Gln	Glu	Leu	465	470	475	480
Asn	Glu	Leu	Asp	Tyr	Tyr	Asp	Ser	His	Asn	Val	Asn	Thr	Arg	Cys	Gln	485	490	495	
Lys	Ile	Cys	Asp	Gln	Trp	Asp	Ala	Leu	Gly	Ser	Leu	Thr	His	Ser	Arg	500	505	510	
Arg	Glu	Ala	Leu	Glu	Lys	Thr	Glu	Lys	Gln	Leu	Glu	Ala	Ile	Asp	Gln	515	520	525	
Leu	His	Leu	Glu	Tyr	Ala	Lys	Arg	Ala	Ala	Pro	Phe	Asn	Asn	Trp	Met	530	535	540	
Glu	Ser	Ala	Met	Glu	Asp	Leu	Gln	Asp	Met	Phe	Ile	Val	His	Thr	Ile	545	550	555	560
Glu	Glu	Ile	Glu	Gly	Leu	Ile	Ser	Ala	His	Asp	Gln	Phe	Lys	Ser	Thr	565	570	575	
Leu	Pro	Asp	Ala	Asp	Arg	Glu	Arg	Glu	Ala	Ile	Leu	Ala	Ile	His	Lys	580	585	590	
Glu	Ala	Gln	Arg	Ile	Ala	Glu	Ser	Asn	His	Ile	Lys	Leu	Ser	Gly	Ser	595	600	605	
Asn	Pro	Tyr	Thr	Thr	Val	Thr	Pro	Gln	Ile	Ile	Asn	Ser	Lys	Trp	Glu	610	615	620	
Lys	Val	Gln	Gln	Leu	Val	Pro	Lys	Arg	Asp	His	Ala	Leu	Leu	Glu	Glu	625	630	635	640
Gln	Ser	Lys	Gln	Gln	Ser	Asn	Glu	His	Leu	Arg	Arg	Gln	Phe	Ala	Ser	645	650	655	

Gln Ala Asn Val Val Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile
 660 665 670
 Gly Arg Ile Ser Ile Glu Met Asn Gly Thr Leu Glu Asp Gln Leu Ser
 675 680 685
 His Leu Lys Gln Tyr Glu Arg Ser Ile Val Asp Tyr Lys Pro Asn Leu
 690 695 700
 Asp Leu Leu Glu Gln Gln His Gln Leu Ile Gln Glu Ala Leu Ile Phe
 705 710 715 720
 Asp Asn Lys His Thr Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp
 725 730 735
 Glu Gln Leu Leu Thr Thr Ile Ala Arg Thr Ile Asn Glu Val Glu Asn
 740 745 750
 Gln Ile Leu Thr Arg Asp Ala Lys Gly Ile Ser Gln Glu Gln Met Gln
 755 760 765
 Glu Phe Arg Ala Ser Phe Asn His Phe Asp Lys Asp His Gly Gly Ala
 770 775 780
 Leu Gly Pro Glu Glu Phe Lys Ala Cys Leu Ile Ser Leu Gly Tyr Asp
 785 790 795 800
 Val Glu Asn Asp Arg Gln Gly Glu Ala Glu Phe Asn Arg Ile Met Ser
 805 810 815
 Leu Val Asp Pro Asn His Ser Gly Leu Val Thr Phe Gln Ala Phe Ile
 820 825 830
 Asp Phe Met Ser Arg Glu Thr Thr Asp Thr Asp Thr Ala Asp Gln Val
 835 840 845
 Ile Ala Ser Phe Lys Val Leu Ala Gly Asp Lys Asn Phe Ile Thr Ala
 850 855 860
 Glu Glu Leu Arg Arg Glu Leu Pro Pro Asp Gln Ala Glu Tyr Cys Ile
 865 870 875 880
 Ala Arg Met Ala Pro Tyr Gln Gly Pro Asp Ala Val Pro Gly Ala Leu
 885 890 895
 Asp Tyr Lys Ser Phe Ser Thr Ala Leu Tyr Gly Glu Ser Asp Leu
 900 905 910

<210> 6

<211> 683

<212> PRT

<213> Homo sapiens

<220>

<223> Transforming growth factor-beta induced protein

IG-H3 precursor; Accession NO: as of 06 Dec 2002: Q15582

<400> 6

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Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu Ala Leu
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Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
          20          25          30

Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
          35          40          45

Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
          50          55          60

Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
65          70          75          80

Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
          85          90          95

Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
          100          105          110

Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
          115          120          125

Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
          130          135          140

Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
145          150          155          160

Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
          165          170          175

Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
          180          185          190

Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
          195          200          205

Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
          210          215          220

Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
225          230          235          240

Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
          245          250          255

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Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
 260 265 270
 Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile
 275 280 285
 Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg
 290 295 300
 Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala
 305 310 315 320
 Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu
 325 330 335
 Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile
 340 345 350
 Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp
 355 360 365
 Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala
 370 375 380
 Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu
 385 390 395 400
 Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu
 405 410 415
 Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg
 420 425 430
 Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr
 435 440 445
 Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg
 450 455 460
 Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala
 465 470 475 480
 Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg
 485 490 495
 Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp
 500 505 510
 Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr
 515 520 525
 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn
 530 535 540

Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly
 545 550 555 560
 Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu
 565 570 575
 Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu
 580 585 590
 Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val
 595 600 605
 Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
 610 615 620
 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
 625 630 635 640
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
 645 650 655
 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
 660 665 670
 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
 675 680

<210> 7

<211> 892

<212> PRT

<213> Homo sapiens

<220>

<223> Alpha-actinin 1; Accession NO: P12814

<400> 7

Met Asp His Tyr Asp Ser Gln Gln Thr Asn Asp Tyr Met Gln Pro Glu
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 Glu Asp Trp Asp Arg Asp Leu Leu Leu Asp Pro Ala Trp Glu Lys Gln
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 Gln Arg Lys Thr Phe Thr Ala Trp Cys Asn Ser His Leu Arg Lys Ala
 35 40 45
 Gly Thr Gln Ile Glu Asn Ile Glu Glu Asp Phe Arg Asp Gly Leu Lys
 50 55 60
 Leu Met Leu Leu Leu Glu Val Ile Ser Gly Glu Arg Leu Ala Lys Pro
 65 70 75 80
 Glu Arg Gly Lys Met Arg Val His Lys Ile Ser Asn Val Asn Lys Ala
 85 90 95

Leu Asp Phe Ile Ala Ser Lys Gly Val Lys Leu Val Ser Ile Gly Ala
 100 105 110
 Glu Glu Ile Val Asp Gly Asn Val Lys Met Thr Leu Gly Met Ile Trp
 115 120 125
 Thr Ile Ile Leu Arg Phe Ala Ile Gln Asp Ile Ser Val Glu Glu Thr
 130 135 140
 Ser Ala Lys Glu Gly Leu Leu Leu Trp Cys Gln Arg Lys Thr Ala Pro
 145 150 155 160
 Tyr Lys Asn Val Asn Ile Gln Asn Phe His Ile Ser Trp Lys Asp Gly
 165 170 175
 Leu Gly Phe Cys Ala Leu Ile His Arg His Arg Pro Glu Leu Ile Asp
 180 185 190
 Tyr Gly Lys Leu Arg Lys Asp Asp Pro Leu Thr Asn Leu Asn Thr Ala
 195 200 205
 Phe Asp Val Ala Glu Lys Tyr Leu Asp Ile Pro Lys Met Leu Asp Ala
 210 215 220
 Glu Asp Ile Val Gly Thr Ala Arg Pro Asp Glu Lys Ala Ile Met Thr
 225 230 235 240
 Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly Ala Gln Lys Ala Glu
 245 250 255
 Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala Val Asn Gln Glu Asn
 260 265 270
 Glu Gln Leu Met Glu Asp Tyr Glu Lys Leu Ala Ser Asp Leu Leu Glu
 275 280 285
 Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asn Arg Val Pro Glu Asn
 290 295 300
 Thr Met His Ala Met Gln Gln Lys Leu Glu Asp Phe Arg Asp Tyr Arg
 305 310 315 320
 Arg Leu His Lys Pro Pro Lys Val Gln Glu Lys Cys Gln Leu Glu Ile
 325 330 335
 Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu Ser Asn Arg Pro Ala
 340 345 350
 Phe Met Pro Ser Glu Gly Arg Met Val Ser Asp Ile Asn Asn Ala Trp
 355 360 365
 Gly Cys Leu Glu Gln Val Glu Lys Gly Tyr Glu Glu Trp Leu Leu Asn
 370 375 380

Glu Ile Arg Arg Leu Glu Arg Leu Asp His Leu Ala Glu Lys Phe Arg
 385 390 395 400
 Gln Lys Ala Ser Ile His Glu Ala Trp Thr Asp Gly Lys Glu Ala Met
 405 410 415
 Leu Arg Gln Lys Asp Tyr Glu Thr Ala Thr Leu Ser Glu Ile Lys Ala
 420 425 430
 Leu Leu Lys Lys His Glu Ala Phe Glu Ser Asp Leu Ala Ala His Gln
 435 440 445
 Asp Arg Val Glu Gln Ile Ala Ala Ile Ala Gln Glu Leu Asn Glu Leu
 450 455 460
 Asp Tyr Tyr Asp Ser Pro Ser Val Asn Ala Arg Cys Gln Lys Ile Cys
 465 470 475 480
 Asp Gln Trp Asp Asn Leu Gly Ala Leu Thr Gln Lys Arg Arg Glu Ala
 485 490 495
 Leu Glu Arg Thr Glu Lys Leu Leu Glu Thr Ile Asp Gln Leu Tyr Leu
 500 505 510
 Glu Tyr Ala Lys Arg Ala Ala Pro Phe Asn Asn Trp Met Glu Gly Ala
 515 520 525
 Met Glu Asp Leu Gln Asp Thr Phe Ile Val His Thr Ile Glu Glu Ile
 530 535 540
 Gln Gly Leu Thr Thr Ala His Glu Gln Phe Lys Ala Thr Leu Pro Asp
 545 550 555 560
 Ala Asp Lys Glu Arg Leu Ala Ile Leu Gly Ile His Asn Glu Val Ser
 565 570 575
 Lys Ile Val Gln Thr Tyr His Val Asn Met Ala Gly Thr Asn Pro Tyr
 580 585 590
 Thr Thr Ile Thr Pro Gln Glu Ile Asn Gly Lys Trp Asp His Val Arg
 595 600 605
 Gln Leu Val Pro Arg Arg Asp Gln Ala Leu Thr Glu Glu His Ala Arg
 610 615 620
 Gln Gln His Asn Glu Ser Val Arg Lys Gln Phe Gly Ala Gln Ala Asn
 625 630 635 640
 Val Ile Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile Gly Arg Ile
 645 650 655
 Ser Ile Glu Met His Gly Thr Leu Glu Asp Gln Leu Ser His Leu Arg
 660 665 670

Gln Tyr Glu Lys Ser Ile Val Asn Tyr Lys Pro Lys Ile Asp Gln Leu
 675 680 685
 Glu Gly Asp His Gln Leu Ile Gln Glu Ala Leu Ile Phe Asp Asn Lys
 690 695 700
 His Thr Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp Glu Gln Leu
 705 710 715 720
 Leu Thr Thr Ile Ala Arg Thr Ile Asn Glu Val Glu Asn Gln Ile Leu
 725 730 735
 Thr Arg Asp Ala Lys Gly Ile Ser Gln Glu Gln Met Asn Glu Phe Arg
 740 745 750
 Ala Ser Phe Asn His Phe Asp Arg Asp His Ser Gly Thr Leu Gly Pro
 755 760 765
 Glu Glu Phe Lys Ala Cys Leu Ile Ser Leu Gly Tyr Asp Ile Gly Asn
 770 775 780
 Asp Pro Gln Gly Glu Ala Glu Phe Ala Arg Ile Met Ser Ile Val Asp
 785 790 795 800
 Pro Asn Arg Leu Gly Val Val Thr Phe Gln Ala Phe Ile Asp Phe Met
 805 810 815
 Ser Arg Glu Thr Ala Asp Thr Asp Thr Ala Asp Gln Val Met Ala Ser
 820 825 830
 Phe Lys Ile Leu Ala Gly Asp Lys Asn Tyr Ile Thr Met Asp Glu Leu
 835 840 845
 Arg Arg Glu Leu Pro Pro Asp Gln Ala Glu Tyr Cys Ile Ala Arg Met
 850 855 860
 Ala Pro Tyr Thr Gly Pro Asp Ser Val Pro Gly Ala Leu Asp Tyr Met
 865 870 875 880
 Ser Phe Ser Thr Ala Leu Tyr Gly Glu Ser Asp Leu
 885 890

<210> 8

<211> 448

<212> PRT

<213> Homo sapiens

<220>

<223> Tubulin alpha-4 chain; Accession NO: P05215

<400> 8

Met	Arg	Glu	Cys	Ile	Ser	Val	His	Val	Gly	Gln	Ala	Gly	Val	Gln	Met
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Gly	Asn	Ala	Cys	Trp	Glu	Leu	Tyr	Cys	Leu	Glu	His	Gly	Ile	Gln	Pro
			20					25					30		
Asp	Gly	Gln	Met	Pro	Ser	Asp	Lys	Thr	Ile	Gly	Gly	Gly	Asp	Asp	Ser
		35					40					45			
Phe	Thr	Thr	Phe	Phe	Cys	Glu	Thr	Gly	Ala	Gly	Lys	His	Val	Pro	Arg
	50					55					60				
Ala	Val	Phe	Val	Asp	Leu	Glu	Pro	Thr	Val	Ile	Asp	Glu	Ile	Arg	Asn
65					70					75					80
Gly	Pro	Tyr	Arg	Gln	Leu	Phe	His	Pro	Glu	Gln	Leu	Ile	Thr	Gly	Lys
				85					90					95	
Glu	Asp	Ala	Ala	Asn	Asn	Tyr	Ala	Arg	Gly	His	Tyr	Thr	Ile	Gly	Lys
			100					105					110		
Glu	Ile	Ile	Asp	Pro	Val	Leu	Asp	Arg	Ile	Arg	Lys	Leu	Ser	Asp	Gln
		115					120					125			
Cys	Thr	Gly	Leu	Gln	Gly	Phe	Leu	Val	Phe	His	Ser	Phe	Gly	Gly	Gly
	130					135					140				
Thr	Gly	Ser	Gly	Phe	Thr	Ser	Leu	Leu	Met	Glu	Arg	Leu	Ser	Val	Asp
145					150					155					160
Tyr	Gly	Lys	Lys	Ser	Lys	Leu	Glu	Phe	Ser	Ile	Tyr	Pro	Ala	Pro	Gln
				165					170					175	
Val	Ser	Thr	Ala	Val	Val	Glu	Pro	Tyr	Asn	Ser	Ile	Leu	Thr	Thr	His
			180					185					190		
Thr	Thr	Leu	Glu	His	Ser	Asp	Cys	Ala	Phe	Met	Val	Asp	Asn	Glu	Ala
		195					200					205			
Ile	Tyr	Asp	Ile	Cys	Arg	Arg	Asn	Leu	Asp	Ile	Glu	Arg	Pro	Thr	Tyr
	210					215					220				
Thr	Asn	Leu	Asn	Arg	Leu	Ile	Ser	Gln	Ile	Val	Ser	Ser	Ile	Thr	Ala
225					230					235					240
Ser	Leu	Arg	Phe	Asp	Gly	Ala	Leu	Asn	Val	Asp	Leu	Thr	Glu	Phe	Gln
				245					250					255	
Thr	Asn	Leu	Val	Pro	Tyr	Pro	Arg	Ile	His	Phe	Pro	Leu	Ala	Thr	Tyr
		260						265					270		
Ala	Pro	Val	Ile	Ser	Ala	Glu	Lys	Ala	Tyr	His	Glu	Gln	Leu	Ser	Val
		275					280					285			

Ala Glu Ile Thr Asn Ala Cys Phe Glu Pro Ala Asn Gln Met Val Lys
 290 295 300
 Cys Asp Pro Arg His Gly Lys Tyr Met Ala Cys Cys Leu Leu Tyr Arg
 305 310 315 320
 Gly Asp Val Val Pro Lys Asp Val Asn Ala Ala Ile Ala Ala Ile Lys
 325 330 335
 Thr Lys Arg Ser Ile Gln Phe Val Asp Trp Cys Pro Thr Gly Phe Lys
 340 345 350
 Val Gly Ile Asn Tyr Gln Pro Pro Thr Val Val Pro Gly Gly Asp Leu
 355 360 365
 Ala Lys Val Gln Arg Ala Val Cys Met Leu Ser Asn Thr Thr Ala Ile
 370 375 380
 Ala Glu Ala Trp Ala Arg Leu Asp His Lys Phe Asp Leu Met Tyr Ala
 385 390 395 400
 Lys Arg Ala Phe Val His Trp Tyr Val Gly Glu Gly Met Glu Glu Gly
 405 410 415
 Glu Phe Ser Glu Ala Arg Glu Asp Met Ala Ala Leu Glu Lys Asp Tyr
 420 425 430
 Glu Glu Val Gly Ile Asp Ser Tyr Glu Asp Glu Asp Glu Gly Glu Glu
 435 440 445

<210> 9
 <211> 2647
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Filamin A; Accession NO: P21333

<400> 9
 Met Ser Ser Ser His Ser Arg Ala Gly Gln Ser Ala Ala Gly Ala Ala
 1 5 10 15
 Pro Gly Gly Gly Val Asp Thr Arg Asp Ala Glu Met Pro Ala Thr Glu
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 Lys Asp Leu Ala Glu Asp Ala Pro Trp Lys Lys Ile Gln Gln Asn Thr
 35 40 45
 Phe Thr Arg Trp Cys Asn Glu His Leu Lys Cys Val Ser Lys Arg Ile
 50 55 60

Ala	Asn	Leu	Gln	Thr	Asp	Leu	Ser	Asp	Gly	Leu	Arg	Leu	Ile	Ala	Leu	65	70	75	80
Leu	Glu	Val	Leu	Ser	Gln	Lys	Lys	Met	His	Arg	Lys	His	Asn	Gln	Arg	85	90	95	
Pro	Thr	Phe	Arg	Gln	Met	Gln	Leu	Glu	Asn	Val	Ser	Val	Ala	Leu	Glu	100	105	110	
Phe	Leu	Asp	Arg	Glu	Ser	Ile	Lys	Leu	Val	Ser	Ile	Asp	Ser	Lys	Ala	115	120	125	
Ile	Val	Asp	Gly	Asn	Leu	Lys	Leu	Ile	Leu	Gly	Leu	Ile	Trp	Thr	Leu	130	135	140	
Ile	Leu	His	Tyr	Ser	Ile	Ser	Met	Pro	Met	Trp	Asp	Glu	Glu	Glu	Asp	145	150	155	160
Glu	Glu	Ala	Lys	Lys	Gln	Thr	Pro	Lys	Gln	Arg	Leu	Leu	Gly	Trp	Ile	165	170	175	
Gln	Asn	Lys	Leu	Pro	Gln	Leu	Pro	Ile	Thr	Asn	Phe	Ser	Arg	Asp	Trp	180	185	190	
Gln	Ser	Gly	Arg	Ala	Leu	Gly	Ala	Leu	Val	Asp	Ser	Cys	Ala	Pro	Gly	195	200	205	
Leu	Cys	Pro	Asp	Trp	Asp	Ser	Trp	Asp	Ala	Ser	Lys	Pro	Val	Thr	Asn	210	215	220	
Ala	Arg	Glu	Ala	Met	Gln	Gln	Ala	Asp	Asp	Trp	Leu	Gly	Ile	Pro	Gln	225	230	235	240
Val	Ile	Thr	Pro	Glu	Glu	Ile	Val	Asp	Pro	Asn	Val	Asp	Glu	His	Ser	245	250	255	
Val	Met	Thr	Tyr	Leu	Ser	Gln	Phe	Pro	Lys	Ala	Lys	Leu	Lys	Pro	Gly	260	265	270	
Ala	Pro	Leu	Arg	Pro	Lys	Leu	Asn	Pro	Lys	Lys	Ala	Arg	Ala	Tyr	Gly	275	280	285	
Pro	Gly	Ile	Glu	Pro	Thr	Gly	Asn	Met	Val	Lys	Lys	Arg	Ala	Glu	Phe	290	295	300	
Thr	Val	Glu	Thr	Arg	Ser	Ala	Gly	Gln	Gly	Glu	Val	Leu	Val	Tyr	Val	305	310	315	320
Glu	Asp	Pro	Ala	Gly	His	Gln	Glu	Glu	Ala	Lys	Val	Thr	Ala	Asn	Asn	325	330	335	
Asp	Lys	Asn	Arg	Thr	Phe	Ser	Val	Trp	Tyr	Val	Pro	Glu	Val	Thr	Gly	340	345	350	

Thr	His	Lys	Val	Thr	Val	Leu	Phe	Ala	Gly	Gln	His	Ile	Ala	Lys	Ser	355	360	365	
Pro	Phe	Glu	Val	Tyr	Val	Asp	Lys	Ser	Gln	Gly	Asp	Ala	Ser	Lys	Val	370	375	380	
Thr	Ala	Gln	Gly	Pro	Gly	Leu	Glu	Pro	Ser	Gly	Asn	Ile	Ala	Asn	Lys	385	390	395	400
Thr	Thr	Tyr	Phe	Glu	Ile	Phe	Thr	Ala	Gly	Ala	Gly	Thr	Gly	Glu	Val	405	410	415	
Glu	Val	Val	Ile	Gln	Asp	Pro	Met	Gly	Gln	Lys	Gly	Thr	Val	Glu	Pro	420	425	430	
Gln	Leu	Glu	Ala	Arg	Gly	Asp	Ser	Thr	Tyr	Arg	Cys	Ser	Tyr	Gln	Pro	435	440	445	
Thr	Met	Glu	Gly	Val	His	Thr	Val	His	Val	Thr	Phe	Ala	Gly	Val	Pro	450	455	460	
Ile	Pro	Arg	Ser	Pro	Tyr	Thr	Val	Thr	Val	Gly	Gln	Ala	Cys	Asn	Pro	465	470	475	480
Ser	Ala	Cys	Arg	Ala	Val	Gly	Arg	Gly	Leu	Gln	Pro	Lys	Gly	Val	Arg	485	490	495	
Val	Lys	Glu	Thr	Ala	Asp	Phe	Lys	Val	Tyr	Thr	Lys	Gly	Ala	Gly	Ser	500	505	510	
Gly	Glu	Leu	Lys	Val	Thr	Val	Lys	Gly	Pro	Lys	Gly	Glu	Glu	Arg	Val	515	520	525	
Lys	Gln	Lys	Asp	Leu	Gly	Asp	Gly	Val	Tyr	Gly	Phe	Glu	Tyr	Tyr	Pro	530	535	540	
Met	Val	Pro	Gly	Thr	Tyr	Ile	Val	Thr	Ile	Thr	Trp	Gly	Gly	Gln	Asn	545	550	555	560
Ile	Gly	Arg	Ser	Pro	Phe	Glu	Val	Lys	Val	Gly	Thr	Glu	Cys	Gly	Asn	565	570	575	
Gln	Lys	Val	Arg	Ala	Trp	Gly	Pro	Gly	Leu	Glu	Gly	Gly	Val	Val	Gly	580	585	590	
Lys	Ser	Ala	Asp	Phe	Val	Val	Glu	Ala	Ile	Gly	Asp	Asp	Val	Gly	Thr	595	600	605	
Leu	Gly	Phe	Ser	Val	Glu	Gly	Pro	Ser	Gln	Ala	Lys	Ile	Glu	Cys	Asp	610	615	620	
Asp	Lys	Gly	Asp	Gly	Ser	Cys	Asp	Val	Arg	Tyr	Trp	Pro	Gln	Glu	Ala	625	630	635	640

Gly Glu Tyr Ala Val His Val Leu Cys Asn Ser Glu Asp Ile Arg Leu
 645 650 655

Ser Pro Phe Met Ala Asp Ile Arg Asp Ala Pro Gln Asp Phe His Pro
 660 665 670

Asp Arg Val Lys Ala Arg Gly Pro Gly Leu Glu Lys Thr Gly Val Ala
 675 680 685

Val Asn Lys Pro Ala Glu Phe Thr Val Asp Ala Lys His Gly Gly Lys
 690 695 700

Ala Pro Leu Arg Val Gln Val Gln Asp Asn Glu Gly Cys Pro Val Glu
 705 710 715 720

Ala Leu Val Lys Asp Asn Gly Asn Gly Thr Tyr Ser Cys Ser Tyr Val
 725 730 735

Pro Arg Lys Pro Val Lys His Thr Ala Met Val Ser Trp Gly Gly Val
 740 745 750

Ser Ile Pro Asn Ser Pro Phe Arg Val Asn Val Gly Ala Gly Ser His
 755 760 765

Pro Asn Lys Val Lys Val Tyr Gly Pro Gly Val Ala Lys Thr Gly Leu
 770 775 780

Lys Ala His Glu Pro Thr Tyr Phe Thr Val Asp Cys Ala Glu Ala Gly
 785 790 795 800

Gln Gly Asp Val Ser Ile Gly Ile Lys Cys Ala Pro Gly Val Val Gly
 805 810 815

Pro Ala Glu Ala Asp Ile Asp Phe Asp Ile Ile Arg Asn Asp Asn Asp
 820 825 830

Thr Phe Thr Val Lys Tyr Thr Pro Arg Gly Ala Gly Ser Tyr Thr Ile
 835 840 845

Met Val Leu Phe Ala Asp Gln Ala Thr Pro Thr Ser Pro Ile Arg Val
 850 855 860

Lys Val Glu Pro Ser His Asp Ala Ser Lys Val Lys Ala Glu Gly Pro
 865 870 875 880

Gly Leu Ser Arg Thr Gly Val Glu Leu Gly Lys Pro Thr His Phe Thr
 885 890 895

Val Asn Ala Lys Ala Ala Gly Lys Gly Lys Leu Asp Val Gln Phe Ser
 900 905 910

Gly Leu Thr Lys Gly Asp Ala Val Arg Asp Val Asp Ile Ile Asp His
 915 920 925

His 930	Asn	Thr	Tyr	Thr	Val	Lys	Tyr	Thr	Pro	Val	Gln	Gln	Gly	Pro	
						935					940				
Val 945	Gly	Val	Asn	Val	Thr	Tyr	Gly	Gly	Asp	Pro	Ile	Pro	Lys	Ser	Pro 960
					950					955					
Phe	Ser	Val	Ala	Val	Ser	Pro	Ser	Leu	Asp	Leu	Ser	Lys	Ile	Lys	Val
				965					970					975	
Ser	Gly	Leu	Gly	Glu	Lys	Val	Asp	Val	Gly	Lys	Asp	Gln	Glu	Phe	Thr
			980					985					990		
Val	Lys	Ser	Lys	Gly	Ala	Gly	Gly	Gln	Gly	Lys	Val	Ala	Ser	Lys	Ile
		995					1000					1005			
Val	Gly	Pro	Ser	Gly	Ala	Ala	Val	Pro	Cys	Lys	Val	Glu	Pro	Gly	
	1010					1015					1020				
Leu	Gly	Ala	Asp	Asn	Ser	Val	Val	Arg	Phe	Leu	Pro	Arg	Glu	Glu	
	1025					1030					1035				
Gly	Pro	Tyr	Glu	Val	Glu	Val	Thr	Tyr	Asp	Gly	Val	Pro	Val	Pro	
	1040					1045					1050				
Gly	Ser	Pro	Phe	Pro	Leu	Glu	Ala	Val	Ala	Pro	Thr	Lys	Pro	Ser	
	1055					1060					1065				
Lys	Val	Lys	Ala	Phe	Gly	Pro	Gly	Leu	Gln	Gly	Gly	Ser	Ala	Gly	
	1070					1075					1080				
Ser	Pro	Ala	Arg	Phe	Thr	Ile	Asp	Thr	Lys	Gly	Ala	Gly	Thr	Gly	
	1085					1090					1095				
Gly	Leu	Gly	Leu	Thr	Val	Glu	Gly	Pro	Cys	Glu	Ala	Gln	Leu	Glu	
	1100					1105					1110				
Cys	Leu	Asp	Asn	Gly	Asp	Gly	Thr	Cys	Ser	Val	Ser	Tyr	Val	Pro	
	1115					1120					1125				
Thr	Glu	Pro	Gly	Asp	Tyr	Asn	Ile	Asn	Ile	Leu	Phe	Ala	Asp	Thr	
	1130					1135					1140				
His	Ile	Pro	Gly	Ser	Pro	Phe	Lys	Ala	His	Val	Val	Pro	Cys	Phe	
	1145					1150					1155				
Asp	Ala	Ser	Lys	Val	Lys	Cys	Ser	Gly	Pro	Gly	Leu	Glu	Arg	Ala	
	1160					1165					1170				
Thr	Ala	Gly	Glu	Val	Gly	Gln	Phe	Gln	Val	Asp	Cys	Ser	Ser	Ala	
	1175					1180					1185				
Gly	Ser	Ala	Glu	Leu	Thr	Ile	Glu	Ile	Cys	Ser	Glu	Ala	Gly	Leu	
	1190					1195					1200				

Pro	Ala	Glu	Val	Tyr	Ile	Gln	Asp	His	Gly	Asp	Gly	Thr	His	Thr
1205						1210					1215			
Ile	Thr	Tyr	Ile	Pro	Leu	Cys	Pro	Gly	Ala	Tyr	Thr	Val	Thr	Ile
1220						1225					1230			
Lys	Tyr	Gly	Gly	Gln	Pro	Val	Pro	Asn	Phe	Pro	Ser	Lys	Leu	Gln
1235						1240					1245			
Val	Glu	Pro	Ala	Val	Asp	Thr	Ser	Gly	Val	Gln	Cys	Tyr	Gly	Pro
1250						1255					1260			
Gly	Ile	Glu	Gly	Gln	Gly	Val	Phe	Arg	Glu	Ala	Thr	Thr	Glu	Phe
1265						1270					1275			
Ser	Val	Asp	Ala	Arg	Ala	Leu	Thr	Gln	Thr	Gly	Gly	Pro	His	Val
1280						1285					1290			
Lys	Ala	Arg	Val	Ala	Asn	Pro	Ser	Gly	Asn	Leu	Thr	Glu	Thr	Tyr
1295						1300					1305			
Val	Gln	Asp	Arg	Gly	Asp	Gly	Met	Tyr	Lys	Val	Glu	Tyr	Thr	Pro
1310						1315					1320			
Tyr	Glu	Glu	Gly	Leu	His	Ser	Val	Asp	Val	Thr	Tyr	Asp	Gly	Ser
1325						1330					1335			
Pro	Val	Pro	Ser	Ser	Pro	Phe	Gln	Val	Pro	Val	Thr	Glu	Gly	Cys
1340						1345					1350			
Asp	Pro	Ser	Arg	Val	Arg	Val	His	Gly	Pro	Gly	Ile	Gln	Ser	Gly
1355						1360					1365			
Thr	Thr	Asn	Lys	Pro	Asn	Lys	Phe	Thr	Val	Glu	Thr	Arg	Gly	Ala
1370						1375					1380			
Gly	Thr	Gly	Gly	Leu	Gly	Leu	Ala	Val	Glu	Gly	Pro	Ser	Glu	Ala
1385						1390					1395			
Lys	Met	Ser	Cys	Met	Asp	Asn	Lys	Asp	Gly	Ser	Cys	Ser	Val	Glu
1400						1405					1410			
Tyr	Ile	Pro	Tyr	Glu	Ala	Gly	Thr	Tyr	Ser	Leu	Asn	Val	Thr	Tyr
1415						1420					1425			
Gly	Gly	His	Gln	Val	Pro	Gly	Ser	Pro	Phe	Lys	Val	Pro	Val	His
1430						1435					1440			
Asp	Val	Thr	Asp	Ala	Ser	Lys	Val	Lys	Cys	Ser	Gly	Pro	Gly	Leu
1445						1450					1455			
Ser	Pro	Gly	Met	Val	Arg	Ala	Asn	Leu	Pro	Gln	Ser	Phe	Gln	Val
1460						1465					1470			

Asp Thr Ser Lys Ala Gly Val	Ala Pro Leu Gln Val	Lys Val Gln
1475	1480	1485
Gly Pro Lys Gly Leu Val Glu	Pro Val Asp Val Val	Asp Asn Ala
1490	1495	1500
Asp Gly Thr Gln Thr Val Asn	Tyr Val Pro Ser Arg	Glu Gly Pro
1505	1510	1515
Tyr Ser Ile Ser Val Leu Tyr	Gly Asp Glu Glu Val	Pro Arg Ser
1520	1525	1530
Pro Phe Lys Val Lys Val Leu	Pro Thr His Asp Ala	Ser Lys Val
1535	1540	1545
Lys Ala Ser Gly Pro Gly Leu	Asn Thr Thr Gly Val	Pro Ala Ser
1550	1555	1560
Leu Pro Val Glu Phe Thr Ile	Asp Ala Lys Asp Ala	Gly Glu Gly
1565	1570	1575
Leu Leu Ala Val Gln Ile Thr	Asp Pro Glu Gly Lys	Pro Lys Lys
1580	1585	1590
Thr His Ile Gln Asp Asn His	Asp Gly Thr Tyr Thr	Val Ala Tyr
1595	1600	1605
Val Pro Asp Val Thr Gly Arg	Tyr Thr Ile Leu Ile	Lys Tyr Gly
1610	1615	1620
Gly Asp Glu Ile Pro Phe Ser	Pro Tyr Arg Val Arg	Ala Val Pro
1625	1630	1635
Thr Gly Asp Ala Ser Lys Cys	Thr Val Thr Val Ser	Ile Gly Gly
1640	1645	1650
His Gly Leu Gly Ala Gly Ile	Gly Pro Thr Ile Gln	Ile Gly Glu
1655	1660	1665
Glu Thr Val Ile Thr Val Asp	Thr Lys Ala Ala Gly	Lys Gly Lys
1670	1675	1680
Val Thr Cys Thr Val Cys Thr	Pro Asp Gly Ser Glu	Val Asp Val
1685	1690	1695
Asp Val Val Glu Asn Glu Asp	Gly Thr Phe Asp Ile	Phe Tyr Thr
1700	1705	1710
Ala Pro Gln Pro Gly Lys Tyr	Val Ile Cys Val Arg	Phe Gly Gly
1715	1720	1725
Glu His Val Pro Asn Ser Pro	Phe Gln Val Thr Ala	Leu Ala Gly
1730	1735	1740

Asp	Gln	Pro	Ser	Val	Gln	Pro	Pro	Leu	Arg	Ser	Gln	Gln	Leu	Ala
1745						1750					1755			
Pro	Gln	Tyr	Thr	Tyr	Ala	Gln	Gly	Gly	Gln	Gln	Thr	Trp	Ala	Pro
1760						1765					1770			
Glu	Arg	Pro	Leu	Val	Gly	Val	Asn	Gly	Leu	Asp	Val	Thr	Ser	Leu
1775						1780					1785			
Arg	Pro	Phe	Asp	Leu	Val	Ile	Pro	Phe	Thr	Ile	Lys	Lys	Gly	Glu
1790						1795					1800			
Ile	Thr	Gly	Glu	Val	Arg	Met	Pro	Ser	Gly	Lys	Val	Ala	Gln	Pro
1805						1810					1815			
Thr	Ile	Thr	Asp	Asn	Lys	Asp	Gly	Thr	Val	Thr	Val	Arg	Tyr	Ala
1820						1825					1830			
Pro	Ser	Glu	Ala	Gly	Leu	His	Glu	Met	Asp	Ile	Arg	Tyr	Asp	Asn
1835						1840					1845			
Met	His	Ile	Pro	Gly	Ser	Pro	Leu	Gln	Phe	Tyr	Val	Asp	Tyr	Val
1850						1855					1860			
Asn	Cys	Gly	His	Val	Thr	Ala	Tyr	Gly	Pro	Gly	Leu	Thr	His	Gly
1865						1870					1875			
Val	Val	Asn	Lys	Pro	Ala	Thr	Phe	Thr	Val	Asn	Thr	Lys	Asp	Ala
1880						1885					1890			
Gly	Glu	Gly	Gly	Leu	Ser	Leu	Ala	Ile	Glu	Gly	Pro	Ser	Lys	Ala
1895						1900					1905			
Glu	Ile	Ser	Cys	Thr	Asp	Asn	Gln	Asp	Gly	Thr	Cys	Ser	Val	Ser
1910						1915					1920			
Tyr	Leu	Pro	Val	Leu	Pro	Gly	Asp	Tyr	Ser	Ile	Leu	Val	Lys	Tyr
1925						1930					1935			
Asn	Glu	Gln	His	Val	Pro	Gly	Ser	Pro	Phe	Thr	Ala	Arg	Val	Thr
1940						1945					1950			
Gly	Asp	Asp	Ser	Met	Arg	Met	Ser	His	Leu	Lys	Val	Gly	Ser	Ala
1955						1960					1965			
Ala	Asp	Ile	Pro	Ile	Asn	Ile	Ser	Glu	Thr	Asp	Leu	Ser	Leu	Leu
1970						1975					1980			
Thr	Ala	Thr	Val	Val	Pro	Pro	Ser	Gly	Arg	Glu	Glu	Pro	Cys	Leu
1985						1990					1995			
Leu	Lys	Arg	Leu	Arg	Asn	Gly	His	Val	Gly	Ile	Ser	Phe	Val	Pro
2000						2005					2010			

Lys	Glu	Thr	Gly	Glu	His	Leu	Val	His	Val	Lys	Lys	Asn	Gly	Gln
2015						2020						2025		
His	Val	Ala	Ser	Ser	Pro	Ile	Pro	Val	Val	Ile	Ser	Gln	Ser	Glu
2030						2035					2040			
Ile	Gly	Asp	Ala	Ser	Arg	Val	Arg	Val	Ser	Gly	Gln	Gly	Leu	His
2045						2050					2055			
Glu	Gly	His	Thr	Phe	Glu	Pro	Ala	Glu	Phe	Ile	Ile	Asp	Thr	Arg
2060						2065					2070			
Asp	Ala	Gly	Tyr	Gly	Gly	Leu	Ser	Leu	Ser	Ile	Glu	Gly	Pro	Ser
2075						2080					2085			
Lys	Val	Asp	Ile	Asn	Thr	Glu	Asp	Leu	Glu	Asp	Gly	Thr	Cys	Arg
2090						2095					2100			
Val	Thr	Tyr	Cys	Pro	Thr	Glu	Pro	Gly	Asn	Tyr	Ile	Ile	Asn	Ile
2105						2110					2115			
Lys	Phe	Ala	Asp	Gln	His	Val	Pro	Gly	Ser	Pro	Phe	Ser	Val	Lys
2120						2125					2130			
Val	Thr	Gly	Glu	Gly	Arg	Val	Lys	Glu	Ser	Ile	Thr	Arg	Arg	Arg
2135						2140					2145			
Arg	Ala	Pro	Ser	Val	Ala	Asn	Val	Gly	Ser	His	Cys	Asp	Leu	Ser
2150						2155					2160			
Leu	Lys	Ile	Pro	Glu	Ile	Ser	Ile	Gln	Asp	Met	Thr	Ala	Gln	Val
2165						2170					2175			
Thr	Ser	Pro	Ser	Gly	Lys	Thr	His	Glu	Ala	Glu	Ile	Val	Glu	Gly
2180						2185					2190			
Glu	Asn	His	Thr	Tyr	Cys	Ile	Arg	Phe	Val	Pro	Ala	Glu	Met	Gly
2195						2200					2205			
Thr	His	Thr	Val	Ser	Val	Lys	Tyr	Lys	Gly	Gln	His	Val	Pro	Gly
2210						2215					2220			
Ser	Pro	Phe	Gln	Phe	Thr	Val	Gly	Pro	Leu	Gly	Glu	Gly	Gly	Ala
2225						2230					2235			
His	Lys	Val	Arg	Ala	Gly	Gly	Pro	Gly	Leu	Glu	Arg	Ala	Glu	Ala
2240						2245					2250			
Gly	Val	Pro	Ala	Glu	Phe	Ser	Ile	Trp	Thr	Arg	Glu	Ala	Gly	Ala
2255						2260					2265			
Gly	Gly	Leu	Ala	Ile	Ala	Val	Glu	Gly	Pro	Ser	Lys	Ala	Glu	Ile
2270						2275					2280			

Ser	Phe	Glu	Asp	Arg	Lys	Asp	Gly	Ser	Cys	Gly	Val	Ala	Tyr	Val
2285						2290					2295			
Val	Gln	Glu	Pro	Gly	Asp	Tyr	Glu	Val	Ser	Val	Lys	Phe	Asn	Glu
2300						2305					2310			
Glu	His	Ile	Pro	Asp	Ser	Pro	Phe	Val	Val	Pro	Val	Ala	Ser	Pro
2315						2320					2325			
Ser	Gly	Asp	Ala	Arg	Arg	Leu	Thr	Val	Ser	Ser	Leu	Gln	Glu	Ser
2330						2335					2340			
Gly	Leu	Lys	Val	Asn	Gln	Pro	Ala	Ser	Phe	Ala	Val	Ser	Leu	Asn
2345						2350					2355			
Gly	Ala	Lys	Gly	Ala	Ile	Asp	Ala	Lys	Val	His	Ser	Pro	Ser	Gly
2360						2365					2370			
Ala	Leu	Glu	Glu	Cys	Tyr	Val	Thr	Glu	Ile	Asp	Gln	Asp	Lys	Tyr
2375						2380					2385			
Ala	Val	Arg	Phe	Ile	Pro	Arg	Glu	Asn	Gly	Val	Tyr	Leu	Ile	Asp
2390						2395					2400			
Val	Lys	Phe	Asn	Gly	Thr	His	Ile	Pro	Gly	Ser	Pro	Phe	Lys	Ile
2405						2410					2415			
Arg	Val	Gly	Glu	Pro	Gly	His	Gly	Gly	Asp	Pro	Gly	Leu	Val	Ser
2420						2425					2430			
Ala	Tyr	Gly	Ala	Gly	Leu	Glu	Gly	Gly	Val	Thr	Gly	Asn	Pro	Ala
2435						2440					2445			
Glu	Phe	Val	Val	Asn	Thr	Ser	Asn	Ala	Gly	Ala	Gly	Ala	Leu	Ser
2450						2455					2460			
Val	Thr	Ile	Asp	Gly	Pro	Ser	Lys	Val	Lys	Met	Asp	Cys	Gln	Glu
2465						2470					2475			
Cys	Pro	Glu	Gly	Tyr	Arg	Val	Thr	Tyr	Thr	Pro	Met	Ala	Pro	Gly
2480						2485					2490			
Ser	Tyr	Leu	Ile	Ser	Ile	Lys	Tyr	Gly	Gly	Pro	Tyr	His	Ile	Gly
2495						2500					2505			
Gly	Ser	Pro	Phe	Lys	Ala	Lys	Val	Thr	Gly	Pro	Arg	Leu	Val	Ser
2510						2515					2520			
Asn	His	Ser	Leu	His	Glu	Thr	Ser	Ser	Val	Phe	Val	Asp	Ser	Leu
2525						2530					2535			
Thr	Lys	Ala	Thr	Cys	Ala	Pro	Gln	His	Gly	Ala	Pro	Gly	Pro	Gly
2540						2545					2550			

Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Leu Gly Leu Ser
 2555 2560 2565

Lys Ala Tyr Val Gly Gln Lys Ser Ser Phe Thr Val Asp Cys Ser
 2570 2575 2580

Lys Ala Gly Asn Asn Met Leu Leu Val Gly Val His Gly Pro Arg
 2585 2590 2595

Thr Pro Cys Glu Glu Ile Leu Val Lys His Val Gly Ser Arg Leu
 2600 2605 2610

Tyr Ser Val Ser Tyr Leu Leu Lys Asp Lys Gly Glu Tyr Thr Leu
 2615 2620 2625

Val Val Lys Trp Gly His Glu His Ile Pro Gly Ser Pro Tyr Arg
 2630 2635 2640

Val Val Val Pro
 2645

<210> 10
 <211> 199
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Transgelin 2; Accession NO: as of 06 Dec 2002: P37802

<400> 10
 Met Ala Asn Arg Gly Pro Ala Tyr Gly Leu Ser Arg Glu Val Gln Gln
 1 5 10 15

Lys Ile Glu Lys Gln Tyr Asp Ala Asp Leu Glu Gln Ile Leu Ile Gln
 20 25 30

Trp Ile Thr Thr Gln Cys Arg Lys Asp Val Gly Arg Pro Gln Pro Gly
 35 40 45

Arg Glu Asn Phe Gln Asn Trp Leu Lys Asp Gly Thr Val Leu Cys Glu
 50 55 60

Leu Ile Asn Ala Leu Tyr Pro Glu Gly Gln Ala Pro Val Lys Lys Ile
 65 70 75 80

Gln Ala Ser Thr Met Ala Phe Lys Gln Met Glu Gln Ile Ser Gln Phe
 85 90 95

Leu Gln Ala Ala Glu Arg Tyr Gly Ile Asn Thr Thr Asp Ile Phe Gln
 100 105 110

Thr Val Asp Leu Trp Glu Gly Lys Asn Met Ala Cys Val Gln Arg Thr
 115 120 125
 Leu Met Asn Leu Gly Gly Leu Ala Val Ala Arg Asp Asp Gly Leu Phe
 130 135 140
 Ser Gly Asp Pro Asn Trp Phe Pro Lys Lys Ser Lys Glu Asn Pro Arg
 145 150 155 160
 Asn Phe Ser Asp Asn Gln Leu Gln Glu Gly Lys Asn Val Ile Gly Leu
 165 170 175
 Gln Met Gly Thr Asn Arg Gly Ala Ser Gln Ala Gly Met Thr Gly Tyr
 180 185 190
 Gly Met Pro Arg Gln Ile Leu
 195

<210> 11
 <211> 248
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Tropomyosin alpha 4 chain; Accession NO: P07226

<400> 11
 Met Ala Gly Leu Asn Ser Leu Glu Ala Val Lys Arg Lys Ile Gln Ala
 1 5 10 15
 Leu Gln Gln Gln Ala Asp Glu Ala Glu Asp Arg Ala Gln Gly Leu Gln
 20 25 30
 Arg Glu Leu Asp Gly Glu Arg Glu Arg Arg Glu Lys Ala Glu Gly Asp
 35 40 45
 Val Ala Ala Leu Asn Arg Arg Ile Gln Leu Val Glu Glu Glu Leu Asp
 50 55 60
 Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys Leu Glu Glu Ala
 65 70 75 80
 Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys Val Ile Glu Asn
 85 90 95
 Arg Ala Met Lys Asp Glu Glu Lys Met Glu Ile Gln Glu Met Gln Leu
 100 105 110
 Lys Glu Ala Lys His Ile Ala Glu Glu Ala Asp Arg Lys Tyr Glu Glu
 115 120 125

Val Ala Arg Lys Leu Val Ile Leu Glu Gly Glu Leu Glu Arg Ala Glu
130 135 140

Glu Arg Ala Glu Val Ser Glu Leu Lys Cys Gly Asp Leu Glu Glu Glu
145 150 155 160

Leu Lys Asn Val Thr Asn Asn Leu Lys Ser Leu Glu Ala Ala Ser Glu
165 170 175

Lys Tyr Ser Glu Lys Glu Asp Lys Tyr Glu Glu Glu Ile Lys Leu Leu
180 185 190

Ser Asp Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu Phe Ala Glu Arg
195 200 205

Thr Val Ala Lys Leu Glu Lys Thr Ile Asp Asp Leu Glu Glu Lys Leu
210 215 220

Ala Gln Ala Lys Glu Glu Asn Val Gly Leu His Gln Thr Leu Asp Gln
225 230 235 240

Thr Leu Asn Glu Leu Asn Cys Ile
245

<210> 12

<211> 793

<212> PRT

<213> Homo sapiens

<220>

<223> Caldesmon; Accession NO: as of 06 Dec 2002: Q05682

<400> 12

Met Asp Asp Phe Glu Arg Arg Arg Glu Leu Arg Arg Gln Lys Arg Glu
1 5 10 15

Glu Met Arg Leu Glu Ala Glu Arg Ile Ala Tyr Gln Arg Asn Asp Asp
20 25 30

Asp Glu Glu Glu Ala Ala Arg Glu Arg Arg Arg Arg Ala Arg Gln Glu
35 40 45

Arg Leu Arg Gln Lys Gln Glu Glu Glu Ser Leu Gly Gln Val Thr Asp
50 55 60

Gln Val Glu Val Asn Ala Gln Asn Ser Val Pro Asp Glu Glu Ala Lys
65 70 75 80

Thr Thr Thr Thr Asn Thr Gln Val Glu Gly Asp Asp Glu Ala Ala Phe
85 90 95

Leu Glu Arg Leu Ala Arg Arg Glu Glu Arg Arg Gln Lys Arg Leu Gln
100 105 110

Glu Ala Leu Glu Arg Gln Lys Glu Phe Asp Pro Thr Ile Thr Asp Ala
 115 120 125
 Ser Leu Ser Leu Pro Ser Arg Arg Met Gln Asn Asp Thr Ala Glu Asn
 130 135 140
 Glu Thr Thr Glu Lys Glu Glu Lys Ser Glu Ser Arg Gln Glu Arg Tyr
 145 150 155 160
 Glu Ile Glu Glu Thr Glu Thr Val Thr Lys Ser Tyr Gln Lys Asn Asp
 165 170 175
 Trp Arg Asp Ala Glu Glu Asn Lys Lys Glu Asp Lys Glu Lys Glu Glu
 180 185 190
 Glu Glu Glu Glu Lys Pro Lys Arg Gly Ser Ile Gly Glu Asn Gln Val
 195 200 205
 Glu Val Met Val Glu Glu Lys Thr Thr Glu Ser Gln Glu Glu Thr Val
 210 215 220
 Val Met Ser Leu Lys Asn Gly Gln Ile Ser Ser Glu Glu Pro Lys Gln
 225 230 235 240
 Glu Glu Glu Arg Glu Gln Gly Ser Asp Glu Ile Ser His His Glu Lys
 245 250 255
 Met Glu Glu Glu Asp Lys Glu Arg Ala Glu Ala Glu Arg Ala Arg Leu
 260 265 270
 Glu Ala Glu Glu Arg Glu Arg Ile Lys Ala Glu Gln Asp Lys Lys Ile
 275 280 285
 Ala Asp Glu Arg Ala Arg Ile Glu Ala Glu Glu Lys Ala Ala Ala Gln
 290 295 300
 Glu Arg Glu Arg Arg Glu Ala Glu Glu Arg Glu Arg Met Arg Glu Glu
 305 310 315 320
 Glu Lys Arg Ala Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys
 325 330 335
 Arg Ala Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys Arg Ala
 340 345 350
 Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys Arg Ala Ala Glu
 355 360 365
 Glu Arg Gln Arg Ala Arg Ala Glu Glu Glu Glu Lys Ala Lys Val Glu
 370 375 380
 Glu Gln Lys Arg Asn Lys Gln Leu Glu Glu Lys Lys Arg Ala Met Gln
 385 390 395 400

Glu Thr Lys Ile Lys Gly Glu Lys Val Glu Gln Lys Ile Glu Gly Lys
 405 410 415
 Trp Val Asn Glu Lys Lys Ala Gln Glu Asp Lys Leu Gln Thr Ala Val
 420 425 430
 Leu Lys Lys Gln Gly Glu Glu Lys Gly Thr Lys Val Gln Ala Lys Arg
 435 440 445
 Glu Lys Leu Gln Glu Asp Lys Pro Thr Phe Lys Lys Glu Glu Ile Lys
 450 455 460
 Asp Glu Lys Ile Lys Lys Asp Lys Glu Pro Lys Glu Glu Val Lys Ser
 465 470 475 480
 Phe Met Asp Arg Lys Lys Gly Phe Thr Glu Val Lys Ser Gln Asn Gly
 485 490 495
 Glu Phe Met Thr His Lys Leu Lys His Thr Glu Asn Thr Phe Ser Arg
 500 505 510
 Pro Gly Gly Arg Ala Ser Val Asp Thr Lys Glu Ala Glu Gly Ala Pro
 515 520 525
 Gln Val Glu Ala Gly Lys Arg Leu Glu Glu Leu Arg Arg Arg Arg Gly
 530 535 540
 Glu Thr Glu Ser Glu Glu Phe Glu Lys Leu Lys Gln Lys Gln Gln Glu
 545 550 555 560
 Ala Ala Leu Glu Leu Glu Glu Leu Lys Lys Lys Arg Glu Glu Arg Arg
 565 570 575
 Lys Val Leu Glu Glu Glu Glu Gln Arg Arg Lys Gln Glu Glu Ala Asp
 580 585 590
 Arg Lys Leu Arg Glu Glu Glu Glu Lys Arg Arg Leu Lys Glu Glu Ile
 595 600 605
 Glu Arg Arg Arg Ala Glu Ala Ala Glu Lys Arg Gln Lys Met Pro Glu
 610 615 620
 Asp Gly Leu Ser Asp Asp Lys Lys Pro Phe Lys Cys Phe Thr Pro Lys
 625 630 635 640
 Gly Ser Ser Leu Lys Ile Glu Glu Arg Ala Glu Phe Leu Asn Lys Ser
 645 650 655
 Val Gln Lys Ser Ser Gly Val Lys Ser Thr His Gln Ala Ala Ile Val
 660 665 670
 Ser Lys Ile Asp Ser Arg Leu Glu Gln Tyr Thr Ser Ala Ile Glu Gly
 675 680 685

Thr Lys Ser Ala Lys Pro Thr Lys Pro Ala Ala Ser Asp Leu Pro Val
 690 695 700
 Pro Ala Glu Gly Val Arg Asn Ile Lys Ser Met Trp Glu Lys Gly Asn
 705 710 715 720
 Val Phe Ser Ser Pro Thr Ala Ala Gly Thr Pro Asn Lys Glu Thr Ala
 725 730 735
 Gly Leu Lys Val Gly Val Ser Ser Arg Ile Asn Glu Trp Leu Thr Lys
 740 745 750
 Thr Pro Asp Gly Asn Lys Ser Pro Ala Pro Lys Pro Ser Asp Leu Arg
 755 760 765
 Pro Gly Asp Val Ser Ser Lys Arg Asn Leu Trp Glu Lys Gln Ser Val
 770 775 780
 Asp Lys Val Thr Ser Pro Thr Lys Val
 785 790

<210> 13
 <211> 458
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Alpha enolase; Accession NO: as of 06 Dec 2002: Q05524

<400> 13
 Met Ser Ile Leu Lys Ile Ile His Ala Arg Asp Ile Phe Glu Ser Arg
 1 5 10 15
 Gly Asn Pro Thr Val Glu Val Asp Leu Tyr Thr Asn Lys Gly Gly Leu
 20 25 30
 Phe Gly Arg Ala Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu
 35 40 45
 Ala Leu Leu Glu Leu Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Gly
 50 55 60
 Lys Gly Val Ser Lys Ala Val Glu His Ile Ile Asn Lys Thr Ile Ala
 65 70 75 80
 Pro Ala Leu Ile Ser Lys Asn Val Asn Val Val Glu Gln Asp Lys Ile
 85 90 95
 Asp Asn Leu Met Leu Asp Met Asp Gly Ser Glu Asn Lys Ser Lys Phe
 100 105 110

Gly	Ala	Asn	Ala	Ile	Leu	Gly	Val	Ser	Leu	Ala	Val	Cys	Ser	Asn	Ala	115	120	125	
Gly	Ala	Thr	Ala	Glu	Lys	Gly	Val	Pro	Leu	Tyr	Arg	His	Ile	Ala	Asp	130	135	140	
Leu	Ala	Gly	Asn	Asn	Pro	Glu	Val	Ile	Leu	Pro	Val	Pro	Ala	Phe	Asn	145	150	155	160
Val	Ile	Asn	Gly	Gly	Ser	His	Ala	Gly	Asn	Lys	Leu	Ala	Met	Gln	Glu	165	170	175	
Phe	Met	Ile	Pro	Pro	Cys	Gly	Ala	Asp	Arg	Phe	Asn	Asp	Ala	Ile	Arg	180	185	190	
Ile	Gly	Ala	Glu	Val	Tyr	His	Asn	Leu	Lys	Asn	Val	Ile	Lys	Glu	Lys	195	200	205	
Tyr	Gly	Lys	Asp	Ala	Thr	Asn	Val	Gly	Asp	Glu	Gly	Gly	Phe	Ala	Pro	210	215	220	
Asn	Ile	Leu	Glu	Asn	Lys	Glu	Ala	Leu	Glu	Leu	Leu	Lys	Thr	Ala	Ile	225	230	235	240
Gly	Lys	Ala	Gly	Tyr	Ser	Asp	Lys	Val	Val	Ile	Gly	Met	Asp	Val	Ala	245	250	255	
Ala	Ser	Glu	Phe	Tyr	Arg	Asp	Gly	Lys	Tyr	Asp	Leu	Asp	Phe	Asn	Ser	260	265	270	
Pro	Asp	Asp	Pro	Ser	Arg	Tyr	Ile	Ser	Pro	Asp	Gln	Leu	Ala	Asp	Leu	275	280	285	
Tyr	Lys	Gly	Phe	Val	Leu	Gly	His	Ala	Val	Lys	Asn	Tyr	Pro	Val	Gly	290	295	300	
Val	Ser	Ile	Glu	Asp	Pro	Pro	Phe	Asp	Gln	Asp	Asp	Trp	Gly	Ala	Trp	305	310	315	320
Lys	Lys	Leu	Phe	Thr	Gly	Ser	Leu	Val	Gly	Ile	Gln	Val	Val	Gly	Asp	325	330	335	
Asp	Leu	Thr	Val	Thr	Lys	Pro	Glu	Ala	Arg	Ile	Ala	Lys	Ala	Val	Glu	340	345	350	
Glu	Val	Lys	Ala	Cys	Asn	Cys	Leu	Leu	Leu	Lys	Val	Asn	Gln	Ile		355	360	365	
Gly	Ser	Val	Thr	Glu	Ser	Leu	Gln	Ala	Cys	Lys	Leu	Ala	Gln	Ser	Asn	370	375	380	
Gly	Trp	Gly	Val	Met	Pro	Val	Ser	His	Arg	Leu	Ser	Gly	Glu	Thr	Glu	385	390	395	400

Asp Thr Phe Met Ala Asp Leu Val Val Gly Leu Cys Thr Gly Gln Ile
 405 410 415

Lys Thr Gly Pro Thr Cys Arg Ser Glu Arg Leu Ala Lys Tyr Asn Gln
 420 425 430

Leu Leu Arg Ile Glu Glu Ala Glu Ala Gly Ser Lys Ala Arg Phe Ala
 435 440 445

Gly Arg Asn Phe Arg Asn Pro Arg Ile Asn
 450 455

<210> 14

<211> 408

<212> PRT

<213> Homo sapiens

<220>

<223> Aminoacylase-1; Accession NO: as of 06 Dec 2002: Q03154

<400> 14

Met Thr Ser Lys Gly Pro Glu Glu Glu His Pro Ser Val Thr Leu Phe
 1 5 10 15

Arg Gln Tyr Leu Arg Ile Arg Thr Val Gln Pro Lys Pro Asp Tyr Gly
 20 25 30

Ala Ala Val Ala Phe Phe Glu Glu Thr Ala Arg Gln Leu Gly Leu Gly
 35 40 45

Cys Gln Lys Val Glu Val Ala Pro Gly Tyr Val Val Thr Val Leu Thr
 50 55 60

Trp Pro Gly Thr Asn Pro Thr Leu Ser Ser Ile Leu Leu Asn Ser His
 65 70 75 80

Thr Asp Val Val Pro Val Phe Lys Glu His Trp Ser His Asp Pro Phe
 85 90 95

Glu Ala Phe Lys Asp Ser Glu Gly Tyr Ile Tyr Ala Arg Gly Ala Gln
 100 105 110

Asp Met Lys Cys Val Ser Ile Gln Tyr Leu Glu Ala Val Arg Arg Leu
 115 120 125

Lys Val Glu Gly His Arg Phe Pro Arg Thr Ile His Met Thr Phe Val
 130 135 140

Pro Asp Glu Glu Val Gly Gly His Gln Gly Met Glu Leu Phe Val Gln
 145 150 155 160

Arg Pro Glu Phe His Ala Leu Arg Ala Gly Phe Ala Leu Asp Glu Gly
 165 170 175

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Ile Ala Asn Pro Thr Asp Ala Phe Thr Val Phe Tyr Ser Glu Arg Ser
    180                                185                                190

Pro Trp Trp Val Arg Val Thr Ser Thr Gly Arg Pro Gly His Ala Ser
    195                                200                                205

Arg Phe Met Glu Asp Thr Ala Ala Glu Lys Leu His Lys Val Val Asn
    210                                215                                220

Ser Ile Leu Ala Phe Arg Glu Lys Glu Trp Gln Arg Leu Gln Ser Asn
    225                                230                                235                                240

Pro His Leu Lys Glu Gly Ser Val Thr Ser Val Asn Leu Thr Lys Leu
    245                                250                                255

Glu Gly Gly Val Ala Tyr Asn Val Ile Pro Ala Thr Met Ser Ala Ser
    260                                265                                270

Phe Asp Phe Arg Val Ala Pro Asp Val Asp Phe Lys Ala Phe Glu Glu
    275                                280                                285

Gln Leu Gln Ser Trp Cys Gln Ala Ala Gly Glu Gly Val Thr Leu Glu
    290                                295                                300

Phe Ala Gln Lys Trp Met His Pro Gln Val Thr Pro Thr Asp Asp Ser
    305                                310                                315                                320

Asn Pro Trp Trp Ala Ala Phe Ser Arg Val Cys Lys Asp Met Asn Leu
    325                                330                                335

Thr Leu Glu Pro Glu Ile Met Pro Ala Ala Thr Asp Asn Arg Tyr Ile
    340                                345                                350

Arg Ala Val Gly Val Pro Ala Leu Gly Phe Ser Pro Met Asn Arg Thr
    355                                360                                365

Pro Val Leu Leu His Asp His Asp Glu Arg Leu His Glu Ala Val Phe
    370                                375                                380

Leu Arg Gly Val Asp Ile Tyr Thr Arg Leu Leu Pro Ala Leu Ala Ser
    385                                390                                395                                400

Val Pro Ala Leu Pro Ser Asp Ser
    405

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<210> 15
<211> 277
<212> PRT
<213> Homo sapiens

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<220>

<223> F-actin capping protein beta subunit; Accession NO:
as of 06 Dec 2002: P47756

<400> 15

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Met Ser Asp Gln Gln Leu Asp Cys Ala Leu Asp Leu Met Arg Arg Leu
1          5          10          15

Pro Pro Gln Gln Ile Glu Lys Asn Leu Ser Asp Leu Ile Asp Leu Val
          20          25          30

Pro Ser Leu Cys Glu Asp Leu Leu Ser Ser Val Asp Gln Pro Leu Lys
          35          40          45

Ile Ala Arg Asp Lys Val Val Gly Lys Asp Tyr Leu Leu Cys Asp Tyr
50          55          60

Asn Arg Asp Gly Asp Ser Tyr Arg Ser Pro Trp Ser Asn Lys Tyr Asp
65          70          75          80

Pro Pro Leu Glu Asp Gly Ala Met Pro Ser Ala Arg Leu Arg Lys Leu
          85          90          95

Glu Val Glu Ala Asn Asn Ala Phe Asp Gln Tyr Arg Asp Leu Tyr Phe
100          105          110

Glu Gly Gly Val Ser Ser Val Tyr Leu Trp Asp Leu Asp His Gly Phe
115          120          125

Ala Gly Val Ile Leu Ile Lys Lys Ala Gly Asp Gly Ser Lys Lys Ile
130          135          140

Lys Gly Cys Trp Asp Ser Ile His Val Val Glu Val Gln Glu Lys Ser
145          150          155          160

Ser Gly Arg Thr Ala His Tyr Lys Leu Thr Ser Thr Val Met Leu Trp
          165          170          175

Leu Gln Thr Asn Lys Ser Gly Ser Gly Thr Met Asn Leu Gly Gly Ser
180          185          190

Leu Thr Arg Gln Met Glu Lys Asp Glu Thr Val Ser Asp Cys Ser Pro
195          200          205

His Ile Ala Asn Ile Gly Arg Leu Val Glu Asp Met Glu Asn Lys Ile
210          215          220

Arg Ser Thr Leu Asn Glu Ile Tyr Phe Gly Lys Thr Lys Asp Ile Val
225          230          235          240

Asn Gly Leu Arg Ser Ile Asp Ala Ile Pro Asp Asn Gln Lys Phe Lys
          245          250          255

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Gln Leu Gln Arg Glu Leu Ser Gln Val Leu Thr Gln Arg Gln Ile Tyr
 260 265 270

Ile Gln Pro Asp Asn
 275

<210> 16
 <211> 289
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Inorganic pyrophosphatase; Accession NO: as of
 06 Dec 2002: Q15181

<400> 16
 Met Ser Gly Phe Ser Thr Glu Glu Arg Ala Ala Pro Phe Ser Leu Glu
 1 5 10 15
 Tyr Arg Val Phe Leu Lys Asn Glu Lys Gly Gln Tyr Ile Ser Pro Phe
 20 25 30
 His Asp Ile Pro Ile Tyr Ala Asp Lys Asp Val Phe His Met Val Val
 35 40 45
 Glu Val Pro Arg Trp Ser Asn Ala Lys Met Glu Ile Ala Thr Lys Asp
 50 55 60
 Pro Leu Asn Pro Ile Lys Gln Asp Val Lys Lys Gly Lys Leu Arg Tyr
 65 70 75 80
 Val Ala Asn Leu Phe Pro Tyr Lys Gly Tyr Ile Trp Asn Tyr Gly Ala
 85 90 95
 Ile Pro Gln Thr Trp Glu Asp Pro Gly His Asn Asp Lys His Thr Gly
 100 105 110
 Cys Cys Gly Asp Asn Asp Pro Ile Asp Val Cys Glu Ile Gly Ser Lys
 115 120 125
 Val Cys Ala Arg Gly Glu Ile Ile Gly Val Lys Val Leu Gly Ile Leu
 130 135 140
 Ala Met Ile Asp Glu Gly Glu Thr Asp Trp Lys Val Ile Ala Ile Asn
 145 150 155 160
 Val Asp Asp Pro Asp Ala Ala Asn Tyr Asn Asp Ile Asn Asp Val Lys
 165 170 175
 Arg Leu Lys Pro Gly Tyr Leu Glu Ala Thr Val Asp Trp Phe Arg Arg
 180 185 190

Tyr Lys Val Pro Asp Gly Lys Pro Glu Asn Glu Phe Ala Phe Asn Ala
 195 200 205
 Glu Phe Lys Asp Lys Asp Phe Ala Ile Asp Ile Ile Lys Ser Thr His
 210 215 220
 Asp His Trp Lys Ala Leu Val Thr Lys Lys Thr Asn Gly Lys Gly Ile
 225 230 235 240
 Ser Cys Met Asn Thr Thr Leu Ser Glu Ser Pro Phe Lys Cys Asp Pro
 245 250 255
 Asp Ala Ala Arg Ala Ile Val Asp Ala Leu Pro Pro Pro Cys Glu Ser
 260 265 270
 Ala Cys Thr Val Pro Thr Asp Val Asp Lys Trp Phe His His Gln Lys
 275 280 285

Asn

<210> 17
 <211> 250
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Galectin-3 (Galactose-specific lectin 3); Accession
 NO: as of 06 Dec 2002: P17931

<400> 17
 Met Ala Asp Asn Phe Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn
 1 5 10 15
 Pro Asn Pro Gln Gly Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly
 20 25 30
 Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln
 35 40 45
 Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr His
 50 55 60
 Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro
 65 70 75 80
 Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser
 85 90 95
 Ala Pro Gly Ala Tyr Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly
 100 105 110

Pro Leu Ile Val Pro Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro
 115 120 125
 Arg Met Leu Ile Thr Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg
 130 135 140
 Ile Ala Leu Asp Phe Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn
 145 150 155 160
 Pro Arg Phe Asn Glu Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys
 165 170 175
 Leu Asp Asn Asn Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe
 180 185 190
 Glu Ser Gly Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His
 195 200 205
 Phe Lys Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg
 210 215 220
 Val Lys Lys Leu Asn Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile
 225 230 235 240
 Asp Leu Thr Ser Ala Ser Tyr Thr Met Ile
 245 250

<210> 18
 <211> 347
 <212> PRT
 <213> Homo sapiens

<220> .
 <223> Voltage-dependent anion-selective channel
 protein 2 (VDAC-2); Accession NO:as of
 06 Dec 2002: P45880

<400> 18
 Met Ser Trp Cys Asn Glu Leu Arg Leu Pro Ala Leu Lys Gln His Ser
 1 5 10 15
 Ile Gly Arg Gly Leu Glu Ser His Ile Thr Met Cys Ile Pro Pro Ser
 20 25 30
 Tyr Ala Asp Leu Gly Lys Ala Ala Arg Asp Ile Phe Asn Lys Gly Phe
 35 40 45
 Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys Ser Cys Ser Gly
 50 55 60

Val	Glu	Phe	Ser	Thr	Ser	Gly	Ser	Ser	Asn	Thr	Asp	Thr	Gly	Lys	Val	65	70	75	80
Thr	Gly	Thr	Leu	Glu	Thr	Lys	Tyr	Lys	Trp	Cys	Glu	Tyr	Gly	Leu	Thr	85	90	95	
Phe	Thr	Glu	Lys	Trp	Asn	Thr	Asp	Asn	Thr	Leu	Gly	Thr	Glu	Ile	Ala	100	105	110	
Ile	Glu	Asp	Gln	Ile	Cys	Gln	Gly	Leu	Lys	Leu	Thr	Phe	Asp	Thr	Thr	115	120	125	
Phe	Ser	Pro	Asn	Thr	Gly	Lys	Lys	Ser	Gly	Lys	Ile	Lys	Ser	Ser	Tyr	130	135	140	
Lys	Arg	Glu	Cys	Ile	Asn	Leu	Gly	Cys	Asp	Val	Asp	Phe	Asp	Phe	Ala	145	150	155	160
Gly	Pro	Ala	Ile	His	Gly	Ser	Ala	Val	Phe	Gly	Tyr	Glu	Gly	Trp	Leu	165	170	175	
Ala	Gly	Tyr	Gln	Met	Thr	Phe	Asp	Ser	Ala	Lys	Ser	Lys	Leu	Thr	Arg	180	185	190	
Asn	Asn	Phe	Ala	Val	Gly	Tyr	Arg	Thr	Gly	Asp	Phe	Gln	Leu	His	Thr	195	200	205	
Asn	Val	Asn	Asp	Gly	Thr	Glu	Phe	Gly	Gly	Ser	Ile	Tyr	Gln	Lys	Val	210	215	220	
Cys	Glu	Asp	Leu	Asp	Thr	Ser	Val	Asn	Leu	Ala	Trp	Thr	Ser	Gly	Thr	225	230	235	240
Asn	Cys	Thr	Arg	Phe	Gly	Ile	Ala	Ala	Lys	Tyr	Gln	Leu	Asp	Pro	Thr	245	250	255	
Ala	Ser	Ile	Ser	Ala	Lys	Val	Asn	Asn	Ser	Ser	Leu	Ile	Gly	Val	Gly	260	265	270	
Tyr	Thr	Gln	Thr	Leu	Arg	Pro	Gly	Val	Lys	Leu	Thr	Leu	Ser	Ala	Leu	275	280	285	
Val	Asp	Gly	Lys	Ser	Ile	Asn	Ala	Gly	Gly	His	Lys	Val	Gly	Ser	Pro	290	295	300	
Trp	Ser	Trp	Arg	Leu	Asn	Pro	Ala	Glu	Arg	Asn	Leu	Trp	Glu	Trp	Ile	305	310	315	320
Ser	Glu	Asp	Leu	Ala	Leu	Ile	Tyr	Phe	His	Cys	Asp	Gln	Gln	Gln	Ala	325	330	335	
Phe	Phe	Pro	Pro	Glu	Asp	Asp	Gln	Asn	Lys	Gly						340	345		

<210> 19
 <211> 339
 <212> PRT
 <213> Homo sapiens

<220>

<223> Annexin II; Accession NO: as of 06 Dec 2002: P07355

<400> 19

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Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly Asp
1           5           10           15

His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr Asn
          20           25           30

Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys Thr
          35           40           45

Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg Ser
          50           55           60

Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr Lys
65           70           75           80

Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu Glu
          85           90           95

Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala Ser
          100          105          110

Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser Leu
          115          120          125

Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile Asn
          130          135          140

Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile Ile
145          150          155          160

Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala Lys
          165          170          175

Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile Asp
          180          185          190

Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly Thr
          195          200          205

Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His
210          215          220

Leu Gln Lys Val Phe Asp Arg Tyr Lys Ser Tyr Ser Pro Tyr Asp Met
225          230          235          240

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Leu Glu Ser Ile Arg Lys Glu Val Lys Gly Asp Leu Glu Asn Ala Phe
245 250 255

Leu Asn Leu Val Gln Cys Ile Gln Asn Lys Pro Leu Tyr Phe Ala Asp
260 265 270

Arg Leu Tyr Asp Ser Met Lys Gly Lys Gly Thr Arg Asp Lys Val Leu
275 280 285

Ile Arg Ile Met Val Ser Arg Ser Glu Val Asp Met Leu Lys Ile Arg
290 295 300

Ser Glu Phe Lys Arg Lys Tyr Gly Lys Ser Leu Tyr Tyr Tyr Ile Gln
305 310 315 320

Gln Asp Thr Lys Gly Asp Tyr Gln Lys Ala Leu Leu Tyr Leu Cys Gly
325 330 335

Gly Asp Asp

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<210> 20
<211> 418
<212> PRT
<213> Homo sapiens
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<220>
<223> Collagen-binding protein 2 precursor; Accession NO:
as of 06 Dec 2002: P50454

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<400> 20
Met Arg Ser Leu Leu Leu Leu Ser Ala Phe Cys Leu Leu Glu Ala Ala
1           5           10          15
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Leu Ala Ala Glu Val Lys Lys Pro Ala Ala Ala Ala Ala Pro Gly Thr
20 25 30

Ala Glu Lys Leu Ser Pro Lys Ala Ala Thr Leu Ala Glu Arg Ser Ala
35 40 45

Gly Leu Ala Phe Ser Leu Tyr Gln Ala Met Ala Lys Asp Gln Ala Val
50 55 60

Glu Asn Ile Leu Val Ser Pro Val Val Val Ala Ser Ser Leu Gly Leu
65 70 75 80

Val Ser Leu Gly Gly Lys Ala Thr Thr Ala Ser Gln Ala Lys Ala Val
85 90 95

Leu Ser Ala Glu Gln Leu Arg Asp Glu Glu Val His Ala Gly Leu Gly
100 105 110

Glu Leu Leu Arg Ser Leu Ser Asn Ser Thr Ala Arg Asn Val Thr Trp
 115 120 125
 Lys Leu Gly Ser Arg Leu Tyr Gly Pro Ser Ser Val Ser Phe Ala Asp
 130 135 140
 Asp Phe Val Arg Ser Ser Lys Gln His Tyr Asn Cys Glu His Ser Lys
 145 150 155 160
 Ile Asn Phe Arg Asp Lys Arg Ser Ala Leu Gln Ser Ile Asn Glu Trp
 165 170 175
 Ala Ala Gln Thr Thr Asp Gly Lys Leu Pro Glu Val Thr Lys Asp Val
 180 185 190
 Glu Arg Thr Asp Gly Ala Leu Leu Val Asn Ala Met Phe Phe Lys Pro
 195 200 205
 His Trp Asp Glu Lys Phe His His Lys Met Val Asp Asn Arg Gly Phe
 210 215 220
 Met Val Thr Arg Ser Tyr Thr Val Gly Val Met Met Met His Arg Thr
 225 230 235 240
 Gly Leu Tyr Asn Tyr Tyr Asp Asp Glu Lys Glu Lys Leu Gln Ile Val
 245 250 255
 Glu Met Pro Leu Ala His Lys Leu Ser Ser Leu Ile Ile Leu Met Pro
 260 265 270
 His His Val Glu Pro Leu Glu Arg Leu Glu Lys Leu Leu Thr Lys Glu
 275 280 285
 Gln Leu Lys Ile Trp Met Gly Lys Met Gln Lys Lys Ala Val Ala Ile
 290 295 300
 Ser Leu Pro Lys Gly Val Val Glu Val Thr His Asp Leu Gln Lys His
 305 310 315 320
 Leu Ala Gly Leu Gly Leu Thr Glu Ala Ile Asp Lys Asn Lys Ala Asp
 325 330 335
 Leu Ser Arg Met Ser Gly Lys Lys Asp Leu Tyr Leu Ala Ser Val Phe
 340 345 350
 His Ala Thr Ala Phe Glu Leu Asp Thr Asp Gly Asn Pro Phe Asp Gln
 355 360 365
 Asp Ile Tyr Gly Arg Glu Glu Leu Arg Ser Pro Lys Leu Phe Tyr Ala
 370 375 380
 Asp His Pro Phe Ile Phe Leu Val Arg Asp Thr Gln Ser Gly Ser Leu
 385 390 395 400

Leu Phe Ile Gly Arg Leu Val Arg Pro Lys Gly Asp Lys Met Arg Asp
 405 410 415

Glu Leu

<210> 21
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Cofilin, non-muscle isoform; Accession NO: as of
 08 ec 2002: P23528

<400> 21
 Met Ala Ser Gly Val Ala Val Ser Asp Gly Val Ile Lys Val Phe Asn
 1 5 10 15
 Asp Met Lys Val Arg Lys Ser Ser Thr Pro Glu Glu Val Lys Lys Arg
 20 25 30
 Lys Lys Ala Val Leu Phe Cys Leu Ser Glu Asp Lys Lys Asn Ile Ile
 35 40 45
 Leu Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val
 50 55 60
 Asp Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys
 65 70 75 80
 Arg Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys
 85 90 95
 Glu Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys
 100 105 110
 Ser Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu
 115 120 125
 Thr Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys
 130 135 140
 Asp Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser
 145 150 155 160
 Leu Glu Gly Lys Pro Leu
 165

<210> 22
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220>

<223> Peptidyl-prolyl cis-trans isomerase A; Accession NO:
 as of 09 Dec 2002: P05092

<400> 22

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Met Val Asn Pro Thr Val Phe Phe Asp Ile Ala Val Asp Gly Glu Pro
1              5              10              15

Leu Gly Arg Val Ser Phe Glu Leu Phe Ala Asp Lys Val Pro Lys Thr
              20              25              30

Ala Glu Asn Phe Arg Ala Leu Ser Thr Gly Glu Lys Gly Phe Gly Tyr
              35              40              45

Lys Gly Ser Cys Phe His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly
50              55              60

Gly Asp Phe Thr Arg His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly
65              70              75              80

Glu Lys Phe Glu Asp Glu Asn Phe Ile Leu Lys His Thr Gly Pro Gly
              85              90              95

Ile Leu Ser Met Ala Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe
              100             105             110

Phe Ile Cys Thr Ala Lys Thr Glu Trp Leu Asp Gly Lys His Val Val
              115             120             125

Phe Gly Lys Val Lys Glu Gly Met Asn Ile Val Glu Ala Met Glu Arg
              130             135             140

Phe Gly Ser Arg Asn Gly Lys Thr Ser Lys Lys Ile Thr Ile Ala Asp
145             150             155             160

Cys Gly Gln Leu Glu
              165

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<210> 23
 <211> 638
 <212> PRT
 <213> Homo sapiens

<220>

<223> Dynein intermediate chain 2, cytosolic; Accession NO:
 as of 09 Dec 2002: Q13409

<400> 23

Met	Ser	Asp	Lys	Ser	Glu	Leu	Lys	Ala	Glu	Leu	Glu	Arg	Lys	Lys	Gln
1				5					10					15	
Arg	Leu	Ala	Gln	Ile	Arg	Glu	Glu	Lys	Lys	Arg	Lys	Glu	Glu	Glu	Arg
			20					25					30		
Lys	Lys	Lys	Glu	Thr	Asp	Gln	Lys	Lys	Glu	Ala	Val	Ala	Pro	Val	Gln
		35					40					45			
Glu	Glu	Ser	Asp	Leu	Glu	Lys	Lys	Arg	Arg	Glu	Ala	Glu	Ala	Leu	Leu
	50					55					60				
Gln	Ser	Met	Gly	Leu	Thr	Pro	Glu	Ser	Pro	Ile	Val	Phe	Ser	Glu	Tyr
65					70					75					80
Trp	Val	Pro	Pro	Pro	Met	Ser	Pro	Ser	Ser	Lys	Ser	Val	Ser	Thr	Pro
				85					90					95	
Ser	Glu	Ala	Gly	Ser	Gln	Asp	Ser	Gly	Asp	Gly	Ala	Val	Gly	Ser	Arg
			100					105					110		
Thr	Leu	His	Trp	Asp	Thr	Asp	Pro	Ser	Val	Leu	Gln	Leu	His	Ser	Asp
		115					120					125			
Ser	Asp	Leu	Gly	Arg	Gly	Pro	Ile	Lys	Leu	Gly	Met	Ala	Lys	Ile	Thr
	130					135					140				
Gln	Val	Asp	Phe	Pro	Pro	Arg	Glu	Ile	Val	Thr	Tyr	Thr	Lys	Glu	Thr
145					150					155					160
Gln	Thr	Pro	Val	Met	Ala	Gln	Pro	Lys	Glu	Asp	Glu	Glu	Glu	Asp	Asp
				165					170					175	
Asp	Val	Val	Ala	Pro	Lys	Pro	Pro	Ile	Glu	Pro	Glu	Glu	Glu	Lys	Thr
			180					185					190		
Leu	Lys	Lys	Asp	Glu	Glu	Asn	Asp	Ser	Lys	Ala	Pro	Pro	His	Glu	Leu
	195						200					205			
Thr	Glu	Glu	Glu	Lys	Gln	Gln	Ile	Leu	His	Ser	Glu	Glu	Phe	Leu	Ser
	210					215					220				
Phe	Phe	Asp	His	Ser	Thr	Arg	Ile	Val	Glu	Arg	Ala	Leu	Ser	Glu	Gln
225					230					235					240
Ile	Asn	Ile	Phe	Phe	Asp	Tyr	Ser	Gly	Arg	Asp	Leu	Glu	Asp	Lys	Glu
			245						250					255	
Gly	Glu	Ile	Gln	Ala	Gly	Ala	Lys	Leu	Ser	Leu	Asn	Arg	Gln	Phe	Phe
			260					265					270		
Asp	Glu	Arg	Trp	Ser	Lys	His	Arg	Val	Val	Ser	Cys	Leu	Asp	Trp	Ser
		275					280					285			

Ser Gln Tyr Pro Glu Leu Leu Val Ala Ser Tyr Asn Asn Asn Glu Asp
 290 295 300
 Ala Pro His Glu Pro Asp Gly Val Ala Leu Val Trp Asn Met Lys Tyr
 305 310 315 320
 Lys Lys Thr Thr Pro Glu Tyr Val Phe His Cys Gln Ser Ala Val Met
 325 330 335
 Ser Ala Thr Phe Ala Lys Phe His Pro Asn Leu Val Val Gly Gly Thr
 340 345 350
 Tyr Ser Gly Gln Ile Val Leu Trp Asp Asn Arg Ser Asn Lys Arg Thr
 355 360 365
 Pro Val Gln Arg Thr Pro Leu Ser Ala Ala Ala His Thr His Pro Val
 370 375 380
 Tyr Cys Val Asn Val Val Gly Thr Gln Asn Ala His Asn Leu Ile Ser
 385 390 395 400
 Ile Ser Thr Asp Gly Lys Ile Cys Ser Trp Ser Leu Asp Met Leu Ser
 405 410 415
 His Pro Gln Asp Ser Met Glu Leu Val His Lys Gln Ser Lys Ala Val
 420 425 430
 Ala Val Thr Ser Met Ser Phe Pro Val Gly Asp Val Asn Asn Phe Val
 435 440 445
 Val Gly Ser Glu Glu Gly Ser Val Tyr Thr Ala Cys Arg His Gly Ser
 450 455 460
 Lys Ala Gly Ile Ser Glu Met Phe Glu Gly His Gln Gly Pro Ile Thr
 465 470 475 480
 Gly Ile His Cys His Ala Ala Val Gly Ala Val Asp Phe Ser His Leu
 485 490 495
 Phe Val Thr Ser Ser Phe Asp Trp Thr Val Lys Leu Trp Thr Thr Lys
 500 505 510
 Asn Asn Lys Pro Leu Tyr Ser Phe Glu Asp Asn Ala Asp Tyr Val Tyr
 515 520 525
 Asp Val Met Trp Ser Pro Thr His Pro Ala Leu Phe Ala Cys Val Asp
 530 535 540
 Gly Met Gly Arg Leu Asp Leu Trp Asn Leu Asn Asn Asp Thr Glu Val
 545 550 555 560
 Pro Thr Ala Ser Ile Ser Val Glu Gly Asn Pro Ala Leu Asn Arg Val
 565 570 575

Arg Trp Thr His Ser Gly Arg Glu Ile Ala Val Gly Asp Ser Glu Gly
580 585 590

Gln Ile Val Ile Tyr Asp Val Gly Glu Gln Ile Ala Val Pro Arg Asn
595 600 605

Asp Glu Trp Ala Arg Phe Gly Arg Thr Leu Ala Glu Ile Asn Ala Asn
610 615 620

Arg Ala Asp Ala Glu Glu Glu Ala Ala Thr Arg Ile Pro Ala
625 630 635

<210> 24

<211> 328

<212> PRT

<213> Homo sapiens

<220>

<223> Delta3,5-delta2,4-dienoyl-CoA isomerase,
mitochondrial precursor; Accession NO: as of
09 Dec 2002: Q13011

<400> 24

Met Ala Ala Gly Ile Val Ala Ser Arg Arg Leu Arg Asp Leu Leu Thr
1 5 10 15

Arg Arg Leu Thr Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser Leu Arg
20 25 30

Leu Thr Gly Ser Ser Ala Gln Glu Glu Ala Ser Gly Val Ala Leu Gly
35 40 45

Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr Ser Ala Gln
50 55 60

Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys Arg Asn Ala
65 70 75 80

Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe Asn Lys Ile
85 90 95

Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly Ala Gly Lys
100 105 110

Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser Asp Ile Leu
115 120 125

Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr Leu Arg Asp
130 135 140

Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu Arg Cys Pro
145 150 155 160

Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly Gly Gly Val
 165 170 175
 Asp Leu Val Thr Ala Cys Asp Ile Arg Tyr Cys Ala Gln Asp Ala Phe
 180 185 190
 Phe Gln Val Lys Glu Val Asp Val Gly Leu Ala Ala Asp Val Gly Thr
 195 200 205
 Leu Glu Arg Leu Pro Lys Val Ile Gly Asn Gln Ser Leu Val Asn Glu
 210 215 220
 Leu Ala Phe Thr Ala His Lys Met Met Ala Asp Glu Ala Leu Asp Ser
 225 230 235 240
 Gly Leu Val Ser Arg Val Phe Pro Asp Lys Glu Val Met Leu Asp Ala
 245 250 255
 Ala Leu Pro Leu Ala Pro Glu Ile Ser Ser Lys Thr Thr Val Leu Val
 260 265 270
 Gln Ser Thr Lys Val Asn Leu Leu Tyr Ser Arg Asp His Ser Val Ala
 275 280 285
 Glu Ser Leu Asn Tyr Val Ala Ser Trp Asn Met Ser Met Leu Gln Thr
 290 295 300
 Gln Asp Leu Val Lys Ser Val Gln Pro Thr Thr Glu Asn Lys Glu Leu
 305 310 315 320
 Lys Thr Val Thr Phe Ser Lys Leu
 325

<210> 25
 <211> 1657
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Ras GTPase-activating-like protein IQGAP1; Accession NO:
 as of 09 Dec 2002: P46940

<400> 25
 Met Ser Ala Ala Asp Glu Val Asp Gly Leu Gly Val Ala Arg Pro His
 1 5 10 15
 Tyr Gly Ser Val Leu Asp Asn Glu Arg Leu Thr Ala Glu Glu Met Asp
 20 25 30
 Glu Arg Arg Arg Gln Asn Val Ala Tyr Glu Tyr Leu Cys His Leu Glu
 35 40 45

Glu Ala Lys Arg Trp Met Glu Ala Cys Leu Gly Glu Asp Leu Pro Pro
 50 55 60
 Thr Thr Glu Leu Glu Glu Gly Leu Arg Asn Gly Val Tyr Leu Ala Lys
 65 70 75 80
 Leu Gly Asn Phe Phe Ser Pro Lys Val Val Ser Leu Lys Lys Ile Tyr
 85 90 95
 Asp Arg Glu Gln Thr Arg Tyr Lys Ala Thr Gly Leu His Phe Arg His
 100 105 110
 Thr Asp Asn Val Ile Gln Trp Leu Asn Ala Met Asp Glu Ile Gly Leu
 115 120 125
 Pro Lys Ile Phe Tyr Pro Glu Thr Thr Asp Ile Tyr Asp Arg Lys Asn
 130 135 140
 Met Pro Arg Cys Ile Tyr Cys Ile His Ala Leu Ser Leu Tyr Leu Phe
 145 150 155 160
 Lys Leu Gly Leu Ala Pro Gln Ile Gln Asp Leu Tyr Gly Lys Val Asp
 165 170 175
 Phe Thr Glu Glu Glu Ile Asn Asn Met Lys Thr Glu Leu Glu Lys Tyr
 180 185 190
 Gly Ile Gln Met Pro Ala Phe Ser Lys Ile Gly Gly Ile Leu Ala Asn
 195 200 205
 Glu Leu Ser Val Asp Glu Ala Ala Leu His Ala Ala Val Ile Ala Ile
 210 215 220
 Asn Glu Ala Ile Asp Arg Arg Ile Pro Ala Asp Thr Phe Ala Ala Leu
 225 230 235 240
 Lys Asn Pro Asn Ala Met Leu Val Asn Leu Glu Glu Pro Leu Ala Ser
 245 250 255
 Thr Tyr Gln Asp Ile Leu Tyr Gln Ala Lys Gln Asp Lys Met Thr Asn
 260 265 270
 Ala Lys Asn Arg Thr Glu Asn Ser Glu Arg Glu Arg Asp Val Tyr Glu
 275 280 285
 Glu Leu Leu Thr Gln Ala Glu Ile Gln Gly Asn Ile Asn Lys Val Asn
 290 295 300
 Thr Phe Ser Ala Leu Ala Asn Ile Asp Leu Ala Leu Glu Gln Gly Asp
 305 310 315 320
 Ala Leu Ala Leu Phe Arg Ala Leu Gln Ser Pro Ala Leu Gly Leu Arg
 325 330 335

Gly	Leu	Gln	Gln	Gln	Asn	Ser	Asp	Trp	Tyr	Leu	Lys	Gln	Leu	Leu	Ser	340	345	350	
Asp	Lys	Gln	Gln	Lys	Arg	Gln	Ser	Gly	Gln	Thr	Asp	Pro	Leu	Gln	Lys	355	360	365	
Glu	Glu	Leu	Gln	Ser	Gly	Val	Asp	Ala	Ala	Asn	Ser	Ala	Ala	Gln	Gln	370	375	380	
Tyr	Gln	Arg	Arg	Leu	Ala	Ala	Val	Ala	Leu	Ile	Asn	Ala	Ala	Ile	Gln	385	390	395	400
Lys	Gly	Val	Ala	Glu	Lys	Thr	Val	Leu	Glu	Leu	Met	Asn	Pro	Glu	Ala	405	410	415	
Gln	Leu	Pro	Gln	Val	Tyr	Pro	Phe	Ala	Ala	Asp	Leu	Tyr	Gln	Lys	Glu	420	425	430	
Leu	Ala	Thr	Leu	Gln	Arg	Gln	Ser	Pro	Glu	His	Asn	Leu	Thr	His	Pro	435	440	445	
Glu	Leu	Ser	Val	Ala	Val	Glu	Met	Leu	Ser	Ser	Val	Ala	Leu	Ile	Asn	450	455	460	
Arg	Ala	Leu	Glu	Ser	Gly	Asp	Val	Asn	Thr	Val	Trp	Lys	Gln	Leu	Ser	465	470	475	480
Ser	Ser	Val	Thr	Gly	Leu	Thr	Asn	Ile	Glu	Glu	Glu	Asn	Cys	Gln	Arg	485	490	495	
Tyr	Leu	Asp	Glu	Leu	Met	Lys	Leu	Lys	Ala	Gln	Ala	His	Ala	Glu	Asn	500	505	510	
Asn	Glu	Phe	Ile	Thr	Trp	Asn	Asp	Ile	Gln	Ala	Cys	Val	Asp	His	Val	515	520	525	
Asn	Leu	Val	Val	Gln	Glu	Glu	His	Glu	Arg	Ile	Leu	Ala	Ile	Gly	Leu	530	535	540	
Ile	Asn	Glu	Ala	Leu	Asp	Glu	Gly	Asp	Ala	Gln	Lys	Thr	Leu	Gln	Ala	545	550	555	560
Leu	Gln	Ile	Pro	Ala	Ala	Lys	Leu	Glu	Gly	Val	Leu	Ala	Glu	Val	Ala	565	570	575	
Gln	His	Tyr	Gln	Asp	Thr	Leu	Ile	Arg	Ala	Lys	Arg	Glu	Lys	Ala	Gln	580	585	590	
Glu	Ile	Gln	Asp	Glu	Ser	Ala	Val	Leu	Trp	Leu	Asp	Glu	Ile	Gln	Gly	595	600	605	
Gly	Ile	Trp	Gln	Ser	Asn	Lys	Asp	Thr	Gln	Glu	Ala	Gln	Lys	Phe	Ala	610	615	620	

Leu Gly Ile Phe Ala Ile Asn Glu Ala Val Glu Ser Gly Asp Val Gly
 625 630 635 640
 Lys Thr Leu Ser Ala Leu Arg Ser Pro Asp Val Gly Leu Tyr Gly Val
 645 650 655
 Ile Pro Glu Cys Gly Glu Thr Tyr His Ser Asp Leu Ala Glu Ala Lys
 660 665 670
 Lys Lys Lys Leu Ala Val Gly Asp Asn Asn Ser Lys Trp Val Lys His
 675 680 685
 Trp Val Lys Gly Gly Tyr Tyr Tyr Tyr His Asn Leu Glu Thr Gln Glu
 690 695 700
 Gly Gly Trp Asp Glu Pro Pro Asn Phe Val Gln Asn Ser Met Gln Leu
 705 710 715 720
 Ser Arg Glu Glu Ile Gln Ser Ser Ile Ser Gly Val Thr Ala Ala Tyr
 725 730 735
 Asn Arg Glu Gln Leu Trp Leu Ala Asn Glu Gly Leu Ile Thr Arg Leu
 740 745 750
 Gln Ala Arg Cys Arg Gly Tyr Leu Val Arg Gln Glu Phe Arg Ser Arg
 755 760 765
 Met Asn Phe Leu Lys Lys Gln Ile Pro Ala Ile Thr Cys Ile Gln Ser
 770 775 780
 Gln Trp Arg Gly Tyr Lys Gln Lys Lys Ala Tyr Gln Asp Arg Leu Ala
 785 790 795 800
 Tyr Leu Arg Ser His Lys Asp Glu Val Val Lys Ile Gln Ser Leu Ala
 805 810 815
 Arg Met His Gln Ala Arg Lys Arg Tyr Arg Asp Arg Leu Gln Tyr Phe
 820 825 830
 Arg Asp His Ile Asn Asp Ile Ile Lys Ile Gln Ala Phe Ile Arg Ala
 835 840 845
 Asn Lys Ala Arg Asp Asp Tyr Lys Thr Leu Ile Asn Ala Glu Asp Pro
 850 855 860
 Pro Met Val Val Val Arg Lys Phe Val His Leu Leu Asp Gln Ser Asp
 865 870 875 880
 Gln Asp Phe Gln Glu Glu Leu Asp Leu Met Lys Met Arg Glu Glu Val
 885 890 895
 Ile Thr Leu Ile Arg Ser Asn Gln Gln Leu Glu Asn Asp Leu Asn Leu
 900 905 910

Met Asp Ile Lys Ile Gly Leu Leu Val Lys Asn Lys Ile Thr Leu Gln
 915 920 925
 Asp Val Val Ser His Ser Lys Lys Leu Thr Lys Lys Asn Lys Glu Gln
 930 935 940
 Leu Ser Asp Met Met Met Ile Asn Lys Gln Lys Gly Gly Leu Lys Ala
 945 950 955 960
 Leu Ser Lys Glu Lys Arg Glu Lys Leu Glu Ala Tyr Gln His Leu Phe
 965 970 975
 Tyr Leu Leu Gln Thr Asn Pro Thr Tyr Leu Ala Lys Leu Ile Phe Gln
 980 985 990
 Met Pro Gln Asn Lys Ser Thr Lys Phe Met Asp Ser Val Ile Phe Thr
 995 1000 1005
 Leu Tyr Asn Tyr Ala Ser Asn Gln Arg Glu Glu Tyr Leu Leu Leu
 1010 1015 1020
 Arg Leu Phe Lys Thr Ala Leu Gln Glu Glu Ile Lys Ser Lys Val
 1025 1030 1035
 Asp Gln Ile Gln Glu Ile Val Thr Gly Asn Pro Thr Val Ile Lys
 1040 1045 1050
 Met Val Val Ser Phe Asn Arg Gly Ala Arg Gly Gln Asn Ala Leu
 1055 1060 1065
 Arg Gln Ile Leu Ala Pro Val Val Lys Glu Ile Met Asp Asp Lys
 1070 1075 1080
 Ser Leu Asn Ile Lys Thr Asp Pro Val Asp Ile Tyr Lys Ser Trp
 1085 1090 1095
 Val Asn Gln Met Glu Ser Gln Thr Gly Glu Ala Ser Lys Leu Pro
 1100 1105 1110
 Tyr Asp Val Thr Pro Glu Gln Ala Leu Ala His Glu Glu Val Lys
 1115 1120 1125
 Thr Arg Leu Asp Ser Ser Ile Arg Asn Met Arg Ala Val Thr Asp
 1130 1135 1140
 Lys Phe Leu Ser Ala Ile Val Ser Ser Val Asp Lys Ile Pro Tyr
 1145 1150 1155
 Gly Met Arg Phe Ile Ala Lys Val Leu Lys Asp Ser Leu His Glu
 1160 1165 1170
 Lys Phe Pro Asp Ala Gly Glu Asp Glu Leu Leu Lys Ile Ile Gly
 1175 1180 1185

Asn	Leu	Leu	Tyr	Tyr	Arg	Tyr	Met	Asn	Pro	Ala	Ile	Val	Ala	Pro
1190						1195					1200			
Asp	Ala	Phe	Asp	Ile	Ile	Asp	Leu	Ser	Ala	Gly	Gly	Gln	Leu	Thr
1205						1210					1215			
Thr	Asp	Gln	Arg	Arg	Asn	Leu	Gly	Ser	Ile	Ala	Lys	Met	Leu	Gln
1220						1225					1230			
His	Ala	Ala	Ser	Asn	Lys	Met	Phe	Leu	Gly	Asp	Asn	Ala	His	Leu
1235						1240					1245			
Ser	Ile	Ile	Asn	Glu	Tyr	Leu	Ser	Gln	Ser	Tyr	Gln	Lys	Phe	Arg
1250						1255					1260			
Arg	Phe	Phe	Gln	Thr	Ala	Cys	Asp	Val	Pro	Glu	Leu	Gln	Asp	Lys
1265						1270					1275			
Phe	Asn	Val	Asp	Glu	Tyr	Ser	Asp	Leu	Val	Thr	Leu	Thr	Lys	Pro
1280						1285					1290			
Val	Ile	Tyr	Ile	Ser	Ile	Gly	Glu	Ile	Ile	Asn	Thr	His	Thr	Leu
1295						1300					1305			
Leu	Leu	Asp	His	Gln	Asp	Ala	Ile	Ala	Pro	Glu	His	Asn	Asp	Pro
1310						1315					1320			
Ile	His	Glu	Leu	Leu	Asp	Asp	Leu	Gly	Glu	Val	Pro	Thr	Ile	Glu
1325						1330					1335			
Ser	Leu	Ile	Gly	Glu	Ser	Ser	Gly	Asn	Leu	Asn	Asp	Pro	Asn	Lys
1340						1345					1350			
Glu	Ala	Leu	Ala	Lys	Thr	Glu	Val	Ser	Leu	Thr	Leu	Thr	Asn	Lys
1355						1360					1365			
Phe	Asp	Val	Pro	Gly	Asp	Glu	Asn	Ala	Glu	Met	Asp	Ala	Arg	Thr
1370						1375					1380			
Ile	Leu	Leu	Asn	Thr	Lys	Arg	Leu	Ile	Val	Asp	Val	Ile	Arg	Phe
1385						1390					1395			
Gln	Pro	Gly	Glu	Thr	Leu	Thr	Glu	Ile	Leu	Glu	Thr	Pro	Ala	Thr
1400						1405					1410			
Ser	Glu	Gln	Glu	Ala	Glu	His	Gln	Arg	Ala	Met	Gln	Arg	Arg	Ala
1415						1420					1425			
Ile	Arg	Asp	Ala	Lys	Thr	Pro	Asp	Lys	Met	Lys	Lys	Ser	Lys	Ser
1430						1435					1440			
Val	Lys	Glu	Asp	Ser	Asn	Leu	Thr	Leu	Gln	Glu	Lys	Lys	Glu	Lys
1445						1450					1455			

Ile	Gln	Thr	Gly	Leu	Lys	Lys	Leu	Thr	Glu	Leu	Gly	Thr	Val	Asp
1460						1465					1470			
Pro	Lys	Asn	Lys	Tyr	Gln	Glu	Leu	Ile	Asn	Asp	Ile	Ala	Arg	Asp
1475						1480					1485			
Ile	Arg	Asn	Gln	Arg	Arg	Tyr	Arg	Gln	Arg	Arg	Lys	Ala	Glu	Leu
1490						1495					1500			
Val	Lys	Leu	Gln	Gln	Thr	Tyr	Ala	Ala	Leu	Asn	Ser	Lys	Ala	Thr
1505						1510					1515			
Phe	Tyr	Gly	Glu	Gln	Val	Asp	Tyr	Tyr	Lys	Ser	Tyr	Ile	Lys	Thr
1520						1525					1530			
Cys	Leu	Asp	Asn	Leu	Ala	Ser	Lys	Gly	Lys	Val	Ser	Lys	Lys	Pro
1535						1540					1545			
Arg	Glu	Met	Lys	Gly	Lys	Lys	Ser	Lys	Lys	Ile	Ser	Leu	Lys	Tyr
1550						1555					1560			
Thr	Ala	Ala	Arg	Leu	His	Glu	Lys	Gly	Val	Leu	Leu	Glu	Ile	Glu
1565						1570					1575			
Asp	Leu	Gln	Val	Asn	Gln	Phe	Lys	Asn	Val	Ile	Phe	Glu	Ile	Ser
1580						1585					1590			
Pro	Thr	Glu	Glu	Val	Gly	Asp	Phe	Glu	Val	Lys	Ala	Lys	Phe	Met
1595						1600					1605			
Gly	Val	Gln	Met	Glu	Thr	Phe	Met	Leu	His	Tyr	Gln	Asp	Leu	Leu
1610						1615					1620			
Gln	Leu	Gln	Tyr	Glu	Gly	Val	Ala	Val	Met	Lys	Leu	Phe	Asp	Arg
1625						1630					1635			
Ala	Lys	Val	Asn	Val	Asn	Leu	Leu	Ile	Phe	Leu	Leu	Asn	Lys	Lys
1640						1645					1650			
Phe	Tyr	Gly	Lys											
1655														

<210> 26
 <211> 627
 <212> PRT
 <213> Homo sapiens

<220>
 <223> L-plastin (Lymphocyte cytosolic protein 1); Accession NO:
 as of 09 Dec 2002: P13796

<400> 26

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Met Ala Arg Gly Ser Val Ser Asp Glu Glu Met Met Glu Leu Arg Glu
1           5           10           15

Ala Phe Ala Lys Val Asp Thr Asp Gly Asn Gly Tyr Ile Ser Phe Asn
          20           25           30

Glu Leu Asn Asp Leu Phe Lys Ala Ala Cys Leu Pro Leu Pro Gly Tyr
          35           40           45

Arg Val Arg Glu Ile Thr Glu Asn Leu Met Ala Thr Gly Asp Leu Asp
          50           55           60

Gln Asp Gly Arg Ile Ser Phe Asp Glu Phe Ile Lys Ile Phe His Gly
65           70           75           80

Leu Lys Ser Thr Asp Val Ala Lys Thr Phe Arg Lys Ala Ile Asn Lys
          85           90           95

Lys Glu Gly Ile Cys Ala Ile Gly Gly Thr Ser Glu Gln Ser Ser Val
          100          105          110

Gly Thr Gln His Ser Tyr Ser Glu Glu Glu Lys Tyr Ala Phe Val Asn
          115          120          125

Trp Ile Asn Lys Ala Leu Glu Asn Asp Pro Asp Cys Arg His Val Ile
          130          135          140

Pro Met Asn Pro Asn Thr Asn Asp Leu Phe Asn Ala Val Gly Asp Gly
145           150           155           160

Ile Val Leu Cys Lys Met Ile Asn Leu Ser Val Pro Asp Thr Ile Asp
          165          170          175

Glu Arg Thr Ile Asn Lys Lys Lys Leu Thr Pro Phe Thr Ile Gln Glu
          180          185          190

Asn Leu Asn Leu Ala Leu Asn Ser Ala Ser Ala Ile Gly Cys His Val
          195          200          205

Val Asn Ile Gly Ala Glu Asp Leu Lys Glu Gly Lys Pro Tyr Leu Val
          210          215          220

Leu Gly Leu Leu Trp Gln Val Ile Lys Ile Gly Leu Phe Ala Asp Ile
225           230           235           240

Glu Leu Ser Arg Asn Glu Ala Leu Ile Ala Leu Leu Arg Glu Gly Glu
          245          250          255

Ser Leu Glu Asp Leu Met Lys Leu Ser Pro Glu Glu Leu Leu Leu Arg
          260          265          270

Trp Ala Asn Tyr His Leu Glu Asn Ala Gly Cys Asn Lys Ile Gly Asn
          275          280          285

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Phe	Ser	Thr	Asp	Ile	Lys	Asp	Ser	Lys	Ala	Tyr	Tyr	His	Leu	Leu	Glu	290	295	300
Gln	Val	Ala	Pro	Lys	Gly	Asp	Glu	Glu	Gly	Val	Pro	Ala	Val	Val	Ile	305	310	315
Asp	Met	Ser	Gly	Leu	Arg	Glu	Lys	Asp	Asp	Ile	Gln	Arg	Ala	Glu	Cys	325	330	335
Met	Leu	Gln	Gln	Ala	Glu	Arg	Leu	Gly	Cys	Arg	Gln	Phe	Val	Thr	Ala	340	345	350
Thr	Asp	Val	Val	Arg	Gly	Asn	Pro	Lys	Leu	Asn	Leu	Ala	Phe	Ile	Ala	355	360	365
Asn	Leu	Phe	Asn	Arg	Tyr	Pro	Ala	Leu	His	Lys	Pro	Glu	Asn	Gln	Asp	370	375	380
Ile	Asp	Trp	Gly	Ala	Leu	Glu	Gly	Glu	Thr	Arg	Glu	Glu	Arg	Thr	Phe	385	390	395
Arg	Asn	Trp	Met	Asn	Ser	Leu	Gly	Val	Asn	Pro	Arg	Val	Asn	His	Leu	405	410	415
Tyr	Ser	Asp	Leu	Ser	Asp	Ala	Leu	Val	Ile	Phe	Gln	Leu	Tyr	Glu	Lys	420	425	430
Ile	Lys	Val	Pro	Val	Asp	Trp	Asn	Arg	Val	Asn	Lys	Pro	Pro	Tyr	Pro	435	440	445
Lys	Leu	Gly	Gly	Asn	Met	Lys	Lys	Leu	Glu	Asn	Cys	Asn	Tyr	Ala	Val	450	455	460
Glu	Leu	Gly	Lys	Asn	Gln	Ala	Lys	Phe	Ser	Leu	Val	Gly	Ile	Gly	Gly	465	470	475
Gln	Asp	Leu	Asn	Glu	Gly	Asn	Arg	Thr	Leu	Thr	Leu	Ala	Leu	Ile	Trp	485	490	495
Gln	Leu	Met	Arg	Arg	Tyr	Thr	Leu	Asn	Ile	Leu	Glu	Glu	Ile	Gly	Gly	500	505	510
Gly	Gln	Lys	Val	Asn	Asp	Asp	Ile	Ile	Val	Asn	Trp	Val	Asn	Glu	Thr	515	520	525
Leu	Arg	Glu	Ala	Glu	Lys	Ser	Ser	Ser	Ile	Ser	Ser	Phe	Lys	Asp	Pro	530	535	540
Lys	Ile	Ser	Thr	Ser	Leu	Pro	Val	Leu	Asp	Leu	Ile	Asp	Ala	Ile	Gln	545	550	555
Pro	Gly	Ser	Ile	Asn	Tyr	Asp	Leu	Leu	Lys	Thr	Glu	Asn	Leu	Asn	Asp	565	570	575

Asp Glu Lys Leu Asn Asn Ala Lys Tyr Ala Ile Ser Met Ala Arg Lys
 580 585 590

Ile Gly Ala Arg Val Tyr Ala Leu Pro Glu Asp Leu Val Glu Val Asn
 595 600 605

Pro Lys Met Val Met Thr Val Phe Ala Cys Leu Met Gly Lys Gly Met
 610 615 620

Lys Arg Val
 625

<210> 27

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<223> GTP-binding nuclear protein RAN; Accession NO: as of
 09 Dec 2002: P17080

<400> 27

Met Ala Ala Gln Gly Glu Pro Gln Val Gln Phe Lys Leu Val Leu Val
 1 5 10 15

Gly Asp Gly Gly Thr Gly Lys Thr Thr Phe Val Lys Arg His Leu Thr
 20 25 30

Gly Glu Phe Glu Lys Lys Tyr Val Ala Thr Leu Gly Val Glu Val His
 35 40 45

Pro Leu Val Phe His Thr Asn Arg Gly Pro Ile Lys Phe Asn Val Trp
 50 55 60

Asp Thr Ala Gly Gln Glu Lys Phe Gly Gly Leu Arg Asp Gly Tyr Tyr
 65 70 75 80

Ile Gln Ala Gln Cys Ala Ile Ile Met Phe Asp Val Thr Ser Arg Val
 85 90 95

Thr Tyr Lys Asn Val Pro Asn Trp His Arg Asp Leu Val Arg Val Cys
 100 105 110

Glu Asn Ile Pro Ile Val Leu Cys Gly Asn Lys Val Asp Ile Lys Asp
 115 120 125

Arg Lys Val Lys Ala Lys Ser Ile Val Phe His Arg Lys Lys Asn Leu
 130 135 140

Gln Tyr Tyr Asp Ile Ser Ala Lys Ser Asn Tyr Asn Phe Glu Lys Pro
 145 150 155 160

Phe	Leu	Trp	Leu	Ala	Arg	Lys	Leu	Ile	Gly	Asp	Pro	Asn	Leu	Glu	Phe
				165					170					175	
Val	Ala	Met	Pro	Ala	Leu	Ala	Pro	Pro	Glu	Val	Val	Met	Asp	Pro	Ala
			180					185					190		
Leu	Ala	Ala	Gln	Tyr	Glu	His	Asp	Leu	Glu	Val	Ala	Gln	Thr	Thr	Ala
			195				200					205			
Leu	Pro	Asp	Glu	Asp	Asp	Asp	Leu								
	210					215									

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<210> 28
<211> 463
<212> PRT
<213> Homo sapiens
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<220>
<223> Heterogeneous nuclear ribonucleoprotein K; Accession NO:
      as of 09 Dec 2002: Q07244
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<400> 28															
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1				5					10					15	
Gly	Glu	Phe	Gly	Lys	Arg	Pro	Ala	Glu	Asp	Met	Glu	Glu	Glu	Gln	Ala
			20					25					30		
Phe	Lys	Arg	Ser	Arg	Asn	Thr	Asp	Glu	Met	Val	Glu	Leu	Arg	Ile	Leu
		35					40					45			
Leu	Gln	Ser	Lys	Asn	Ala	Gly	Ala	Val	Ile	Gly	Lys	Gly	Gly	Lys	Asn
	50					55					60				
Ile	Lys	Ala	Leu	Arg	Thr	Asp	Tyr	Asn	Ala	Ser	Val	Ser	Val	Pro	Asp
65					70					75					80
Ser	Ser	Gly	Pro	Glu	Arg	Ile	Leu	Ser	Ile	Ser	Ala	Asp	Ile	Glu	Thr
				85					90					95	
Ile	Gly	Glu	Ile	Leu	Lys	Lys	Ile	Ile	Pro	Thr	Leu	Glu	Glu	Gly	Leu
			100					105					110		
Gln	Leu	Pro	Ser	Pro	Thr	Ala	Thr	Ser	Gln	Leu	Pro	Leu	Glu	Ser	Asp
		115					120					125			
Ala	Val	Glu	Cys	Leu	Asn	Tyr	Gln	His	Tyr	Lys	Gly	Ser	Asp	Phe	Asp
	130					135					140				
Cys	Glu	Leu	Arg	Leu	Leu	Ile	His	Gln	Ser	Leu	Ala	Gly	Gly	Ile	Ile
145					150					155					160

Gly	Val	Lys	Gly	Ala	Lys	Ile	Lys	Glu	Leu	Arg	Glu	Asn	Thr	Gln	Thr		
				165					170					175			
Thr	Ile	Lys	Leu	Phe	Gln	Glu	Cys	Cys	Pro	His	Ser	Thr	Asp	Arg	Val		
			180					185					190				
Val	Leu	Ile	Gly	Gly	Lys	Pro	Asp	Arg	Val	Val	Glu	Cys	Ile	Lys	Ile		
		195					200					205					
Ile	Leu	Asp	Leu	Ile	Ser	Glu	Ser	Pro	Ile	Lys	Gly	Arg	Ala	Gln	Pro		
	210					215					220						
Tyr	Asp	Pro	Asn	Phe	Tyr	Asp	Glu	Thr	Tyr	Asp	Tyr	Gly	Gly	Phe	Thr		
225					230					235					240		
Met	Met	Phe	Asp	Asp	Arg	Arg	Gly	Arg	Pro	Val	Gly	Phe	Pro	Met	Arg		
				245					250					255			
Gly	Arg	Gly	Gly	Phe	Asp	Arg	Met	Pro	Pro	Gly	Arg	Gly	Gly	Arg	Pro		
			260					265					270				
Met	Pro	Pro	Ser	Arg	Arg	Asp	Tyr	Asp	Asp	Met	Ser	Pro	Arg	Arg	Gly		
		275					280					285					
Pro	Pro	Pro	Pro	Pro	Pro	Gly	Arg	Gly	Gly	Arg	Gly	Gly	Ser	Arg	Ala		
	290					295					300						
Arg	Asn	Leu	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Pro	Arg	Gly	Gly	Asp	Leu		
305					310					315					320		
Met	Ala	Tyr	Asp	Arg	Arg	Gly	Arg	Pro	Gly	Asp	Arg	Tyr	Asp	Gly	Met		
				325					330					335			
Val	Gly	Phe	Ser	Ala	Asp	Glu	Thr	Trp	Asp	Ser	Ala	Ile	Asp	Thr	Trp		
			340					345					350				
Ser	Pro	Ser	Glu	Trp	Gln	Met	Ala	Tyr	Glu	Pro	Gln	Gly	Gly	Ser	Gly		
		355					360					365					
Tyr	Asp	Tyr	Ser	Tyr	Ala	Gly	Gly	Arg	Gly	Ser	Tyr	Gly	Asp	Leu	Gly		
	370					375					380						
Gly	Pro	Ile	Ile	Thr	Thr	Gln	Val	Thr	Ile	Pro	Lys	Asp	Leu	Ala	Gly		
385					390					395					400		
Ser	Ile	Ile	Gly	Lys	Gly	Gly	Gln	Arg	Ile	Lys	Gln	Ile	Arg	His	Glu		
				405					410					415			
Ser	Gly	Ala	Ser	Ile	Lys	Ile	Asp	Glu	Pro	Leu	Glu	Gly	Ser	Glu	Asp		
			420					425					430				
Arg	Ile	Ile	Thr	Ile	Thr	Gly	Thr	Gln	Asp	Gln	Ile	Gln	Asn	Ala	Gln		
		435					440					445					

Tyr Leu Leu Gln Asn Ser Val Lys Gln Tyr Ser Gly Lys Phe Phe
 450 455 460

<210> 29
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Translationally controlled tumor protein (TCTP);
 Accession NO: as of 09 Dec 2002: P13693

<400> 29
 Met Ile Ile Tyr Arg Asp Leu Ile Ser His Asp Glu Met Phe Ser Asp
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 Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
 20 25 30
 Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
 35 40 45
 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
 50 55 60
 Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
 65 70 75 80
 Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
 85 90 95
 Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
 100 105 110
 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
 115 120 125
 Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
 130 135 140
 Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Tyr Met
 145 150 155 160
 Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
 165 170

<210> 30
 <211> 284
 <212> PRT
 <213> Homo sapiens

<220>

<223> Tropomyosin 1 alpha chain; Accession NO:
as of 06 Dec 2002: P09493

<400> 30

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Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu Asp Lys Glu
1      5      10      15

Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys Lys Ala Ala
      20      25      30

Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser Leu Gln Lys
      35      40      45

Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser Glu Ala Leu
      50      55      60

Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys Ala Thr Asp
      65      70      75      80

Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val Glu
      85      90      95

Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys
      100     105     110

Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys
      115     120     125

Val Ile Glu Ser Arg Ala Gln Lys Asp Glu Glu Lys Met Glu Ile Gln
      130     135     140

Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp Ala Asp Arg
      145     150     155     160

Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu Ser Asp Leu
      165     170     175

Glu Arg Ala Glu Glu Arg Ala Glu Leu Ser Glu Gly Lys Cys Ala Glu
      180     185     190

Leu Glu Glu Glu Leu Lys Thr Val Thr Asn Asn Leu Lys Ser Leu Glu
      195     200     205

Ala Gln Ala Glu Lys Tyr Ser Gln Lys Glu Asp Arg Tyr Glu Glu Glu
      210     215     220

Ile Lys Val Leu Ser Asp Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu
      225     230     235     240

Phe Ala Glu Arg Ser Val Thr Lys Leu Glu Lys Ser Ile Asp Asp Leu
      245     250     255

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Glu Asp Glu Leu Tyr Ala Gln Lys Leu Lys Tyr Lys Ala Ile Ser Glu
 260 265 270

Glu Leu Asp His Ala Leu Asn Asp Met Thr Ser Ile
 275 280

<210> 31

<211> 482

<212> PRT

<213> Homo sapiens

<220>

<223> Thymidine phosphorylase precursor; Accession NO:
 as of 09 Dec 2002: P19971

<400> 31

Met Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly
 1 5 10 15

Asp Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu
 20 25 30

Pro Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg
 35 40 45

Leu Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly
 50 55 60

Ser Ala Gln Gly Ala Gln Ile Gly Ala Met Leu Met Ala Ile Arg Leu
 65 70 75 80

Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln Ala Leu Ala
 85 90 95

Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg Gln Gln Leu
 100 105 110

Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val Ser Leu Val
 115 120 125

Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Pro Met Ile Ser
 130 135 140

Gly Arg Gly Leu Gly His Thr Gly Gly Thr Leu Asp Lys Leu Glu Ser
 145 150 155 160

Ile Pro Gly Phe Asn Val Ile Gln Ser Pro Glu Gln Met Gln Val Leu
 165 170 175

Leu Asp Gln Ala Gly Cys Cys Ile Val Gly Gln Ser Glu Gln Leu Val
 180 185 190

Pro Ala Asp Gly Ile Leu Tyr Ala Ala Arg Asp Val Thr Ala Thr Val
 195 200 205
 Asp Ser Leu Pro Leu Ile Thr Ala Ser Ile Leu Ser Lys Lys Leu Val
 210 215 220
 Glu Gly Leu Ser Ala Leu Val Val Asp Val Lys Phe Gly Gly Ala Ala
 225 230 235 240
 Val Phe Pro Asn Gln Glu Gln Ala Arg Glu Leu Ala Lys Thr Leu Val
 245 250 255
 Gly Val Gly Ala Ser Leu Gly Leu Arg Val Ala Ala Ala Leu Thr Ala
 260 265 270
 Met Asp Lys Pro Leu Gly Arg Cys Val Gly His Ala Leu Glu Val Glu
 275 280 285
 Glu Ala Leu Leu Cys Met Asp Gly Ala Gly Pro Pro Asp Leu Arg Asp
 290 295 300
 Leu Val Thr Thr Leu Gly Gly Ala Leu Leu Trp Leu Ser Gly His Ala
 305 310 315 320
 Gly Thr Gln Ala Gln Gly Ala Ala Arg Val Ala Ala Ala Leu Asp Asp
 325 330 335
 Gly Ser Ala Leu Gly Arg Phe Glu Arg Met Leu Ala Ala Gln Gly Val
 340 345 350
 Asp Pro Gly Leu Ala Arg Ala Leu Cys Ser Gly Ser Pro Ala Glu Arg
 355 360 365
 Arg Gln Leu Leu Pro Arg Ala Arg Glu Gln Glu Glu Leu Leu Ala Pro
 370 375 380
 Ala Asp Gly Thr Val Glu Leu Val Arg Ala Leu Pro Leu Ala Leu Val
 385 390 395 400
 Leu His Glu Leu Gly Ala Gly Arg Ser Arg Ala Gly Glu Pro Leu Arg
 405 410 415
 Leu Gly Val Gly Ala Glu Leu Leu Val Asp Val Gly Gln Arg Leu Arg
 420 425 430
 Arg Gly Thr Pro Trp Leu Arg Val His Arg Asp Gly Pro Ala Leu Ser
 435 440 445
 Gly Pro Gln Ser Arg Ala Leu Gln Glu Ala Leu Val Leu Ser Asp Arg
 450 455 460
 Ala Pro Phe Ala Ala Pro Leu Pro Phe Ala Glu Leu Val Leu Pro Pro
 465 470 475 480

Gln Gln

<210> 32
 <211> 488
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Cytosol aminopeptidase; Accession NO:
 as of 09 Dec 2002: P28838

<400> 32
 Met Thr Lys Gly Leu Val Leu Gly Ile Tyr Ser Lys Glu Lys Glu Asp
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 Asp Val Pro Gln Phe Thr Ser Ala Gly Glu Asn Phe Asp Lys Leu Leu
 20 25 30
 Ala Gly Lys Leu Arg Glu Thr Leu Asn Ile Ser Gly Pro Pro Leu Lys
 35 40 45
 Ala Gly Lys Thr Arg Thr Phe Tyr Gly Leu His Gln Asp Phe Pro Ser
 50 55 60
 Val Val Leu Val Gly Leu Gly Lys Lys Ala Ala Gly Ile Asp Glu Gln
 65 70 75 80
 Glu Asn Trp His Glu Gly Lys Glu Asn Ile Arg Ala Ala Val Ala Ala
 85 90 95
 Gly Cys Arg Gln Ile Gln Asp Leu Glu Leu Ser Ser Val Glu Val Asp
 100 105 110
 Pro Cys Gly Asp Ala Gln Ala Ala Ala Glu Gly Ala Val Leu Gly Leu
 115 120 125
 Tyr Glu Tyr Asp Asp Leu Lys Gln Lys Lys Lys Met Ala Val Ser Ala
 130 135 140
 Lys Leu Tyr Gly Ser Gly Asp Gln Glu Ala Trp Gln Lys Gly Val Leu
 145 150 155 160
 Phe Ala Ser Gly Gln Asn Leu Ala Arg Gln Leu Met Glu Thr Pro Ala
 165 170 175
 Asn Glu Met Thr Pro Thr Arg Phe Ala Glu Ile Ile Glu Lys Asn Leu
 180 185 190
 Lys Ser Ala Ser Ser Lys Thr Glu Val His Ile Arg Pro Lys Ser Trp
 195 200 205

Ile	Glu	Glu	Gln	Ala	Met	Gly	Ser	Phe	Leu	Ser	Val	Ala	Lys	Gly	Ser	210	215	220	
Asp	Glu	Pro	Pro	Val	Phe	Leu	Glu	Ile	His	Tyr	Lys	Gly	Ser	Pro	Asn	225	230	235	240
Ala	Asn	Glu	Pro	Pro	Leu	Val	Phe	Val	Gly	Lys	Gly	Ile	Thr	Phe	Asp	245	250	255	
Ser	Gly	Gly	Ile	Ser	Ile	Lys	Ala	Ser	Ala	Asn	Met	Asp	Leu	Met	Arg	260	265	270	
Ala	Asp	Met	Gly	Gly	Ala	Ala	Thr	Ile	Cys	Ser	Ala	Ile	Val	Ser	Ala	275	280	285	
Ala	Lys	Leu	Asn	Leu	Pro	Ile	Asn	Ile	Ile	Gly	Leu	Ala	Pro	Leu	Cys	290	295	300	
Glu	Asn	Met	Pro	Ser	Gly	Lys	Ala	Asn	Lys	Pro	Gly	Asp	Val	Val	Arg	305	310	315	320
Ala	Lys	Asn	Gly	Lys	Thr	Ile	Gln	Val	Asp	Asn	Thr	Asp	Ala	Glu	Gly	325	330	335	
Arg	Leu	Ile	Leu	Ala	Asp	Ala	Leu	Cys	Tyr	Ala	His	Thr	Phe	Asn	Pro	340	345	350	
Lys	Val	Ile	Leu	Asn	Ala	Ala	Thr	Leu	Thr	Gly	Ala	Met	Asp	Val	Ala	355	360	365	
Leu	Gly	Ser	Gly	Ala	Thr	Gly	Val	Phe	Thr	Asn	Ser	Ser	Trp	Leu	Trp	370	375	380	
Asn	Lys	Leu	Phe	Glu	Ala	Ser	Ile	Glu	Thr	Gly	Asp	Arg	Val	Trp	Arg	385	390	395	400
Met	Pro	Leu	Phe	Glu	His	Tyr	Thr	Arg	Gln	Val	Val	Asp	Cys	Gln	Leu	405	410	415	
Ala	Asp	Val	Asn	Asn	Ile	Gly	Lys	Tyr	Arg	Ser	Ala	Gly	Ala	Cys	Thr	420	425	430	
Ala	Ala	Ala	Phe	Leu	Lys	Glu	Phe	Val	Thr	His	Pro	Lys	Trp	Ala	His	435	440	445	
Leu	Asp	Ile	Ala	Gly	Val	Met	Thr	Asn	Lys	Asp	Glu	Val	Pro	Tyr	Leu	450	455	460	
Arg	Lys	Gly	Met	Thr	Gly	Arg	Pro	Thr	Arg	Thr	Leu	Ile	Glu	Phe	Leu	465	470	475	480
Leu	Arg	Phe	Ser	Gln	Asp	Asn	Ala	485											

<210> 33
 <211> 400
 <212> PRT
 <213> Homo sapiens

<220>

<223> Keratin, type I cytoskeletal 19; Accession NO:
 as of 09 Dec 2002 : P08727

<400> 33

Met	Thr	Ser	Tyr	Ser	Tyr	Arg	Gln	Ser	Ser	Ala	Thr	Ser	Ser	Phe	Gly	1	5	10	15
Gly	Leu	Gly	Gly	Gly	Ser	Val	Arg	Phe	Gly	Pro	Gly	Val	Ala	Phe	Arg	20	25	30	
Ala	Pro	Ser	Ile	His	Gly	Gly	Ser	Gly	Gly	Arg	Gly	Val	Ser	Val	Ser	35	40	45	
Ser	Ala	Arg	Phe	Val	Ser	Ser	Ser	Ser	Ser	Gly	Gly	Tyr	Gly	Gly	Gly	50	55	60	
Tyr	Gly	Gly	Val	Leu	Thr	Ala	Ser	Asp	Gly	Leu	Leu	Ala	Gly	Asn	Glu	65	70	75	80
Lys	Leu	Thr	Met	Gln	Asn	Leu	Asn	Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Asp	85	90	95	
Lys	Val	Arg	Ala	Leu	Glu	Ala	Ala	Asn	Gly	Glu	Leu	Glu	Val	Lys	Ile	100	105	110	
Arg	Asp	Trp	Tyr	Gln	Lys	Gln	Gly	Pro	Gly	Pro	Ser	Arg	Asp	Tyr	Ser	115	120	125	
His	Tyr	Tyr	Thr	Thr	Ile	Gln	Asp	Leu	Arg	Asp	Lys	Ile	Leu	Gly	Ala	130	135	140	
Thr	Ile	Glu	Asn	Ser	Arg	Ile	Val	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	145	150	155	160
Ala	Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	Ala	Leu	Arg	165	170	175	
Met	Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	Leu	Asp	Glu	180	185	190	
Leu	Thr	Leu	Ala	Arg	Thr	Asp	Leu	Glu	Met	Gln	Ile	Glu	Gly	Leu	Lys	195	200	205	
Glu	Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	Ile	Ser	Thr	210	215	220	

Leu Arg Gly Gln Val Gly Gly Gln Val Ser Val Glu Val Asp Ser Ala
 225 230 235 240
 Pro Gly Thr Asp Leu Ala Lys Ile Leu Ser Asp Met Arg Ser Gln Tyr
 245 250 255
 Glu Val Met Ala Glu Gln Asn Arg Lys Asp Ala Glu Ala Trp Phe Thr
 260 265 270
 Ser Arg Thr Glu Glu Leu Asn Arg Glu Val Ala Gly His Thr Glu Gln
 275 280 285
 Leu Gln Met Ser Arg Ser Glu Val Thr Asp Leu Arg Arg Thr Leu Gln
 290 295 300
 Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys Ala Ala Leu
 305 310 315 320
 Glu Asp Thr Leu Ala Glu Thr Glu Ala Arg Phe Gly Ala Gln Leu Ala
 325 330 335
 His Ile Gln Ala Leu Ile Ser Gly Ile Glu Ala Gln Leu Ala Asp Val
 340 345 350
 Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu Met Asp
 355 360 365
 Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu
 370 375 380
 Glu Gly Gln Glu Asp His Tyr Asn Asn Leu Ser Ala Ser Lys Val Leu
 385 390 395 400

<210> 34
 <211> 325
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Alcohol dehydrogenase [NADP+]; Accession NO:
 as of 09 Dec 2002: P14550

<400> 34
 Met Ala Ala Ser Cys Val Leu Leu His Thr Gly Gln Lys Met Pro Leu
 1 5 10 15
 Ile Gly Leu Gly Thr Trp Lys Ser Glu Pro Gly Gln Val Lys Ala Ala
 20 25 30
 Val Lys Tyr Ala Leu Ser Val Gly Tyr Arg His Ile Asp Cys Ala Ala
 35 40 45

Ile Tyr Gly Asn Glu Pro Glu Ile Gly Glu Ala Leu Lys Glu Asp Val
 50 55 60
 Gly Pro Gly Lys Ala Val Pro Arg Glu Glu Leu Phe Val Thr Ser Lys
 65 70 75 80
 Leu Trp Asn Thr Lys His His Pro Glu Asp Val Glu Pro Ala Leu Arg
 85 90 95
 Lys Thr Leu Ala Asp Leu Gln Leu Glu Tyr Leu Asp Leu Tyr Leu Met
 100 105 110
 His Trp Pro Tyr Ala Phe Glu Arg Gly Asp Asn Pro Phe Pro Lys Asn
 115 120 125
 Ala Asp Gly Thr Ile Cys Tyr Asp Ser Thr His Tyr Lys Glu Thr Trp
 130 135 140
 Lys Ala Leu Glu Ala Leu Val Ala Lys Gly Leu Val Gln Ala Leu Gly
 145 150 155 160
 Leu Ser Asn Phe Asn Ser Arg Gln Ile Asp Asp Ile Leu Ser Val Ala
 165 170 175
 Ser Val Arg Pro Ala Val Leu Gln Val Glu Cys His Pro Tyr Leu Ala
 180 185 190
 Gln Asn Glu Leu Ile Ala His Cys Gln Ala Arg Gly Leu Glu Val Thr
 195 200 205
 Ala Tyr Ser Pro Leu Gly Ser Ser Asp Arg Ala Trp Arg Asp Pro Asp
 210 215 220
 Glu Pro Val Leu Leu Glu Glu Pro Val Val Leu Ala Leu Ala Glu Lys
 225 230 235 240
 Tyr Gly Arg Ser Pro Ala Gln Ile Leu Leu Arg Trp Gln Val Gln Arg
 245 250 255
 Lys Val Ile Cys Ile Pro Lys Ser Ile Thr Pro Ser Arg Ile Leu Gln
 260 265 270
 Asn Ile Lys Val Phe Asp Phe Thr Phe Ser Pro Glu Glu Met Lys Gln
 275 280 285
 Leu Asn Ala Leu Asn Lys Asn Trp Arg Tyr Ile Val Pro Met Leu Thr
 290 295 300
 Val Asp Gly Lys Arg Val Pro Arg Asp Ala Gly His Pro Leu Tyr Pro
 305 310 315 320
 Phe Asn Asp Pro Tyr
 325

<210> 35
 <211> 270
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Elastase IIIA precursor; Accession NO:
 as of 09 Dec 2002: P09093

<400> 35
 Met Met Leu Arg Leu Leu Ser Ser Leu Leu Leu Val Ala Val Ala Ser
 1 5 10 15
 Gly Tyr Gly Pro Pro Ser Ser His Ser Ser Ser Arg Val Val His Gly
 20 25 30
 Glu Asp Ala Val Pro Tyr Ser Trp Pro Trp Gln Val Ser Leu Gln Tyr
 35 40 45
 Glu Lys Ser Gly Ser Phe Tyr His Thr Cys Gly Gly Ser Leu Ile Ala
 50 55 60
 Pro Asp Trp Val Val Thr Ala Gly His Cys Ile Ser Arg Asp Leu Thr
 65 70 75 80
 Tyr Gln Val Val Leu Gly Glu Tyr Asn Leu Ala Val Lys Glu Gly Pro
 85 90 95
 Glu Gln Val Ile Pro Ile Asn Ser Glu Glu Leu Phe Val His Pro Leu
 100 105 110
 Trp Asn Arg Ser Cys Val Ala Cys Gly Asn Asp Ile Ala Leu Ile Lys
 115 120 125
 Leu Ser Arg Ser Ala Gln Leu Gly Asp Ala Val Gln Leu Ala Ser Leu
 130 135 140
 Pro Pro Ala Gly Asp Ile Leu Pro Asn Lys Thr Pro Cys Tyr Ile Thr
 145 150 155 160
 Gly Trp Gly Arg Leu Tyr Thr Asn Gly Pro Leu Pro Asp Lys Leu Gln
 165 170 175
 Gln Ala Arg Leu Pro Val Val Asp Tyr Lys His Cys Ser Arg Trp Asn
 180 185 190
 Trp Trp Gly Ser Thr Val Lys Lys Thr Met Val Cys Ala Gly Gly Tyr
 195 200 205
 Ile Arg Ser Gly Cys Asn Gly Asp Ser Gly Gly Pro Leu Asn Cys Pro
 210 215 220

Thr Glu Asp Gly Gly Trp Gln Val His Gly Val Thr Ser Phe Val Ser
 225 230 235 240

Gly Phe Gly Cys Asn Phe Ile Trp Lys Pro Thr Val Phe Thr Arg Val
 245 250 255

Ser Ala Phe Ile Asp Trp Ile Glu Glu Thr Ile Ala Ser His
 260 265 270

<210> 36

<211> 509

<212> PRT

<213> Homo sapiens

<220>

<223> Dihydrolipoamide dehydrogenase, mitochondrial precursor;
 Accession NO: as of 09 Dec 2002: P09622

<400> 36

Met Gln Ser Trp Ser Arg Val Tyr Cys Ser Leu Ala Lys Arg Gly His
 1 5 10 15

Phe Asn Arg Ile Ser His Gly Leu Gln Gly Leu Ser Ala Val Pro Leu
 20 25 30

Arg Thr Tyr Ala Asp Gln Pro Ile Asp Ala Asp Val Thr Val Ile Gly
 35 40 45

Ser Gly Pro Gly Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly
 50 55 60

Phe Lys Thr Val Cys Ile Glu Lys Asn Glu Thr Leu Gly Gly Thr Cys
 65 70 75 80

Leu Asn Val Gly Cys Ile Pro Ser Lys Ala Leu Leu Asn Asn Ser His
 85 90 95

Tyr Tyr His Met Ala His Gly Thr Asp Phe Ala Ser Arg Gly Ile Glu
 100 105 110

Met Ser Glu Val Arg Leu Asn Leu Asp Lys Met Met Glu Gln Lys Ser
 115 120 125

Thr Ala Val Lys Ala Leu Thr Gly Gly Ile Ala His Leu Phe Lys Gln
 130 135 140

Asn Lys Val Val His Val Asn Gly Tyr Gly Lys Ile Thr Gly Lys Asn
 145 150 155 160

Gln Val Thr Ala Thr Lys Ala Asp Gly Gly Thr Gln Val Ile Asp Thr
 165 170 175

Lys Asn Ile Leu Ile Ala Thr Gly Ser Glu Val Thr Pro Phe Pro Gly
 180 185 190
 Ile Thr Ile Asp Glu Asp Thr Ile Val Ser Ser Thr Gly Ala Leu Ser
 195 200 205
 Leu Lys Lys Val Pro Glu Lys Met Val Val Ile Gly Ala Gly Val Ile
 210 215 220
 Gly Val Glu Leu Gly Ser Val Trp Gln Arg Leu Gly Ala Asp Val Thr
 225 230 235 240
 Ala Val Glu Phe Leu Gly His Val Gly Gly Val Gly Ile Asp Met Glu
 245 250 255
 Ile Ser Lys Asn Phe Gln Arg Ile Leu Gln Lys Gln Gly Phe Lys Phe
 260 265 270
 Lys Leu Asn Thr Lys Val Thr Gly Ala Thr Lys Lys Ser Asp Gly Lys
 275 280 285
 Ile Asp Val Ser Ile Glu Ala Ala Ser Gly Gly Lys Ala Glu Val Ile
 290 295 300
 Thr Cys Asp Val Leu Leu Val Cys Ile Gly Arg Arg Pro Phe Thr Lys
 305 310 315 320
 Asn Leu Gly Leu Glu Glu Leu Gly Ile Glu Leu Asp Pro Arg Gly Arg
 325 330 335
 Ile Pro Val Asn Thr Arg Phe Gln Thr Lys Ile Pro Asn Ile Tyr Ala
 340 345 350
 Ile Gly Asp Val Val Ala Gly Pro Met Leu Ala His Lys Ala Glu Asp
 355 360 365
 Glu Gly Ile Ile Cys Val Glu Gly Met Ala Gly Gly Ala Val His Ile
 370 375 380
 Asp Tyr Asn Cys Val Pro Ser Val Ile Tyr Thr His Pro Glu Val Ala
 385 390 395 400
 Trp Val Gly Lys Ser Glu Glu Gln Leu Lys Glu Glu Gly Ile Glu Tyr
 405 410 415
 Lys Val Gly Lys Phe Pro Phe Ala Ala Asn Ser Arg Ala Lys Thr Asn
 420 425 430
 Ala Asp Thr Asp Gly Met Val Lys Ile Leu Gly Gln Lys Ser Thr Asp
 435 440 445
 Arg Val Leu Gly Ala His Ile Leu Gly Pro Gly Ala Gly Glu Met Val
 450 455 460

Asn Glu Ala Ala Leu Ala Leu Glu Tyr Gly Ala Ser Cys Glu Asp Ile
 465 470 475 480

Ala Arg Val Cys His Ala His Pro Thr Leu Ser Glu Ala Phe Arg Glu
 485 490 495

Ala Asn Leu Ala Ala Ser Phe Gly Lys Ser Ile Asn Phe
 500 505

<210> 37

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<223> Enoyl-CoA hydratase, mitochondrial precursor

Accession NO: as of 09 Dec 2002: P30084

<400> 37

Met Ala Ala Leu Arg Val Leu Leu Ser Cys Ala Arg Gly Pro Leu Arg
 1 5 10 15

Pro Pro Val Arg Cys Pro Ala Trp Arg Pro Phe Ala Ser Gly Ala Asn
 20 25 30

Phe Glu Tyr Ile Ile Ala Glu Lys Arg Gly Lys Asn Asn Thr Val Gly
 35 40 45

Leu Ile Gln Leu Asn Arg Pro Lys Ala Leu Asn Ala Leu Cys Asp Gly
 50 55 60

Leu Ile Asp Glu Leu Asn Gln Ala Leu Lys Ile Phe Glu Glu Asp Pro
 65 70 75 80

Ala Val Gly Ala Ile Val Leu Thr Gly Gly Asp Lys Ala Phe Ala Ala
 85 90 95

Gly Ala Asp Ile Lys Glu Met Gln Asn Leu Ser Phe Gln Asp Cys Tyr
 100 105 110

Ser Ser Lys Phe Leu Lys His Trp Asp His Leu Thr Gln Val Lys Lys
 115 120 125

Pro Val Ile Ala Ala Val Asn Gly Tyr Ala Phe Gly Gly Gly Cys Glu
 130 135 140

Leu Ala Met Met Cys Asp Ile Ile Tyr Ala Gly Glu Lys Ala Gln Phe
 145 150 155 160

Ala Gln Pro Glu Ile Leu Ile Gly Thr Ile Pro Gly Ala Gly Gly Thr
 165 170 175

Gln Arg Leu Thr Arg Ala Val Gly Lys Ser Leu Ala Met Glu Met Val
 180 185 190
 Leu Thr Gly Asp Arg Ile Ser Ala Gln Asp Ala Lys Gln Ala Gly Leu
 195 200 205
 Val Ser Lys Ile Cys Pro Val Glu Thr Leu Val Glu Glu Ala Ile Gln
 210 215 220
 Cys Ala Glu Lys Ile Ala Ser Asn Ser Lys Ile Val Val Ala Met Ala
 225 230 235 240
 Lys Glu Ser Val Asn Ala Ala Phe Glu Met Thr Leu Thr Glu Gly Ser
 245 250 255
 Lys Leu Glu Lys Lys Leu Phe Tyr Ser Thr Phe Ala Thr Asp Asp Arg
 260 265 270
 Lys Glu Gly Met Thr Ala Phe Val Glu Lys Arg Lys Ala Asn Phe Lys
 275 280 285
 Asp Gln
 290

<210> 38
 <211> 160
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Heat-shock 20 kDa like-protein p20;
 Accession NO: as of 09 Dec 2002: O14558

<400> 38
 Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Ser
 1 5 10 15
 Ala Pro Leu Pro Gly Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln Arg
 20 25 30
 Phe Gly Glu Gly Leu Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro Thr
 35 40 45
 Thr Leu Ala Pro Tyr Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro Val
 50 55 60
 Ala Gln Val Pro Thr Asp Pro Gly His Phe Ser Val Leu Leu Asp Val
 65 70 75 80
 Lys His Phe Ser Pro Glu Glu Ile Ala Val Lys Val Val Gly Glu His
 85 90 95

Val Glu Val His Ala Arg His Glu Glu Arg Pro Asp Glu His Gly Phe
 100 105 110

Val Ala Arg Glu Phe His Arg Arg Tyr Arg Leu Pro Pro Gly Val Asp
 115 120 125

Pro Ala Ala Val Thr Ser Ala Leu Ser Pro Glu Gly Val Leu Ser Ile
 130 135 140

Gln Ala Ala Pro Ala Ser Ala Gln Ala Pro Pro Pro Ala Ala Ala Lys
 145 150 155 160

<210> 39
 <211> 151
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Myosin light chain alkali, non-muscle isoform;
 Accession NO: as of 09 Dec 2002: P16475

<400> 39
 Met Cys Asp Phe Thr Glu Asp Gln Thr Ala Glu Phe Lys Glu Ala Phe
 1 5 10 15

Gln Leu Phe Asp Arg Thr Gly Asp Gly Lys Ile Leu Tyr Ser Gln Cys
 20 25 30

Gly Asp Val Met Arg Ala Leu Gly Gln Asn Pro Thr Asn Ala Glu Val
 35 40 45

Leu Lys Val Leu Gly Asn Pro Lys Ser Asp Glu Met Asn Val Lys Val
 50 55 60

Leu Asp Phe Glu His Phe Leu Pro Met Leu Gln Thr Val Ala Lys Asn
 65 70 75 80

Lys Asp Gln Gly Thr Tyr Glu Asp Tyr Val Glu Gly Leu Arg Val Phe
 85 90 95

Asp Lys Glu Gly Asn Gly Thr Val Met Gly Ala Glu Ile Arg His Val
 100 105 110

Leu Val Thr Leu Gly Glu Lys Met Thr Glu Glu Glu Val Glu Met Leu
 115 120 125

Val Ala Gly His Glu Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe
 130 135 140

Val Arg His Ile Leu Ser Gly
 145 150

<210> 40
 <211> 592
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Calnexin precursor;
 Accession NO: as of 09 Dec 2002: P27824

<400> 40
 Met Glu Gly Lys Trp Leu Leu Cys Met Leu Leu Val Leu Gly Thr Ala
 1 5 10 15
 Ile Val Glu Ala His Asp Gly His Asp Asp Asp Val Ile Asp Ile Glu
 20 25 30
 Asp Asp Leu Asp Asp Val Ile Glu Glu Val Glu Asp Ser Lys Pro Asp
 35 40 45
 Thr Thr Ala Pro Pro Ser Ser Pro Lys Val Thr Tyr Lys Ala Pro Val
 50 55 60
 Pro Thr Gly Glu Val Tyr Phe Ala Asp Ser Phe Asp Arg Gly Thr Leu
 65 70 75 80
 Ser Gly Trp Ile Leu Ser Lys Ala Lys Lys Asp Asp Thr Asp Asp Glu
 85 90 95
 Ile Ala Lys Tyr Asp Gly Lys Trp Glu Val Glu Glu Met Lys Glu Ser
 100 105 110
 Lys Leu Pro Gly Asp Lys Gly Leu Val Leu Met Ser Arg Ala Lys His
 115 120 125
 His Ala Ile Ser Ala Lys Leu Asn Lys Pro Phe Leu Phe Asp Thr Lys
 130 135 140
 Pro Leu Ile Val Gln Tyr Glu Val Asn Phe Gln Asn Gly Ile Glu Cys
 145 150 155 160
 Gly Gly Ala Tyr Val Lys Leu Leu Ser Lys Thr Pro Glu Leu Asn Leu
 165 170 175
 Asp Gln Phe His Asp Lys Thr Pro Tyr Thr Ile Met Phe Gly Pro Asp
 180 185 190
 Lys Cys Gly Glu Asp Tyr Lys Leu His Phe Ile Phe Arg His Lys Asn
 195 200 205
 Pro Lys Thr Gly Ile Tyr Glu Glu Lys His Ala Lys Arg Pro Asp Ala
 210 215 220

Asp	Leu	Lys	Thr	Tyr	Phe	Thr	Asp	Lys	Lys	Thr	His	Leu	Tyr	Thr	Leu	225	230	235	240
Ile	Leu	Asn	Pro	Asp	Asn	Ser	Phe	Glu	Ile	Leu	Val	Asp	Gln	Ser	Val	245	250	255	
Val	Asn	Ser	Gly	Asn	Leu	Leu	Asn	Asp	Met	Thr	Pro	Pro	Val	Asn	Pro	260	265	270	
Ser	Arg	Glu	Ile	Glu	Asp	Pro	Glu	Asp	Arg	Lys	Pro	Glu	Asp	Trp	Asp	275	280	285	
Glu	Arg	Pro	Lys	Ile	Pro	Asp	Pro	Glu	Ala	Val	Lys	Pro	Asp	Asp	Trp	290	295	300	
Asp	Glu	Asp	Ala	Pro	Ala	Lys	Ile	Pro	Asp	Glu	Glu	Ala	Thr	Lys	Pro	305	310	315	320
Glu	Gly	Trp	Leu	Asp	Asp	Glu	Pro	Glu	Tyr	Val	Pro	Asp	Pro	Asp	Ala	325	330	335	
Glu	Lys	Pro	Glu	Asp	Trp	Asp	Glu	Asp	Met	Asp	Gly	Glu	Trp	Glu	Ala	340	345	350	
Pro	Gln	Ile	Ala	Asn	Pro	Arg	Cys	Glu	Ser	Ala	Pro	Gly	Cys	Gly	Val	355	360	365	
Trp	Gln	Arg	Pro	Val	Ile	Asp	Asn	Pro	Asn	Tyr	Lys	Gly	Lys	Trp	Lys	370	375	380	
Pro	Pro	Met	Ile	Asp	Asn	Pro	Ser	Tyr	Gln	Gly	Ile	Trp	Lys	Pro	Arg	385	390	395	400
Lys	Ile	Pro	Asn	Pro	Asp	Phe	Phe	Glu	Asp	Leu	Glu	Pro	Phe	Arg	Met	405	410	415	
Thr	Pro	Phe	Ser	Ala	Ile	Gly	Leu	Glu	Leu	Trp	Ser	Met	Thr	Ser	Asp	420	425	430	
Ile	Phe	Phe	Asp	Asn	Phe	Ile	Ile	Cys	Ala	Asp	Arg	Arg	Ile	Val	Asp	435	440	445	
Asp	Trp	Ala	Asn	Asp	Gly	Trp	Gly	Leu	Lys	Lys	Ala	Ala	Asp	Gly	Ala	450	455	460	
Ala	Glu	Pro	Gly	Val	Val	Gly	Gln	Met	Ile	Glu	Ala	Ala	Glu	Glu	Arg	465	470	475	480
Pro	Trp	Leu	Trp	Val	Val	Tyr	Ile	Leu	Thr	Val	Ala	Leu	Pro	Val	Phe	485	490	495	
Leu	Val	Ile	Leu	Phe	Cys	Cys	Ser	Gly	Lys	Lys	Gln	Thr	Ser	Gly	Met	500	505	510	

Glu Tyr Lys Lys Thr Asp Ala Pro Gln Pro Asp Val Lys Glu Glu Glu
 515 520 525

Glu Glu Lys Glu Glu Glu Lys Asp Lys Gly Asp Glu Glu Glu Glu Gly
 530 535 540

Glu Glu Lys Leu Glu Glu Lys Gln Lys Ser Asp Ala Glu Glu Asp Gly
 545 550 555 560

Gly Thr Val Ser Gln Glu Glu Glu Asp Arg Lys Pro Lys Ala Glu Glu
 565 570 575

Asp Glu Ile Leu Asn Arg Ser Pro Arg Asn Arg Lys Pro Arg Arg Glu
 580 585 590

<210> 41

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<223> Complement component 1; Accession NO:
 as of 09 Dec 2002: Q07021

<400> 41

Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu Gly Ser Ser Val
 1 5 10 15

Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe Arg Gln Leu Leu
 20 25 30

Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly Leu Leu Ser Val
 35 40 45

Arg Ala Gly Ser Glu Arg Arg Pro Gly Leu Leu Arg Pro Arg Gly Pro
 50 55 60

Cys Ala Cys Gly Cys Gly Cys Gly Ser Leu His Thr Asp Gly Asp Lys
 65 70 75 80

Ala Phe Val Asp Phe Leu Ser Asp Glu Ile Lys Glu Glu Arg Lys Ile
 85 90 95

Gln Lys His Lys Thr Leu Pro Lys Met Ser Gly Gly Trp Glu Leu Glu
 100 105 110

Leu Asn Gly Thr Glu Ala Lys Leu Val Arg Lys Val Ala Gly Glu Lys
 115 120 125

Ile Thr Val Thr Phe Asn Ile Asn Asn Ser Ile Pro Pro Thr Phe Asp
 130 135 140

Gly Glu Glu Glu Pro Ser Gln Gly Gln Lys Val Glu Glu Gln Glu Pro
 145 150 155 160
 Glu Leu Thr Ser Thr Pro Asn Phe Val Val Glu Val Ile Lys Asn Asp
 165 170 175
 Asp Gly Lys Lys Ala Leu Val Leu Asp Cys His Tyr Pro Glu Asp Glu
 180 185 190
 Val Gly Gln Glu Asp Glu Ala Glu Ser Asp Ile Phe Ser Ile Arg Glu
 195 200 205
 Val Ser Phe Gln Ser Thr Gly Glu Ser Glu Trp Lys Asp Thr Asn Tyr
 210 215 220
 Thr Leu Asn Thr Asp Ser Leu Asp Trp Ala Leu Tyr Asp His Leu Met
 225 230 235 240
 Asp Phe Leu Ala Asp Arg Gly Val Asp Asn Thr Phe Ala Asp Glu Leu
 245 250 255
 Val Glu Leu Ser Thr Ala Leu Glu His Gln Glu Tyr Ile Thr Phe Leu
 260 265 270
 Glu Asp Leu Lys Ser Phe Val Lys Ser Gln
 275 280

<210> 42
 <211> 727
 <212> PRT
 <213> Homo sapiens

<220>
 <223> NADH-ubiquinone oxidoreductase 75 kDa subunit,
 Mitochondrial Precursor; Accession NO: as of
 09 Dec 2002: P28331

<400> 42
 Met Leu Arg Ile Pro Val Arg Arg Ala Leu Val Gly Leu Ser Lys Ser
 1 5 10 15
 Pro Lys Gly Cys Val Arg Thr Thr Ala Thr Ala Ala Ser Asn Leu Ile
 20 25 30
 Glu Val Phe Val Asp Gly Gln Ser Val Met Val Glu Pro Gly Thr Thr
 35 40 45
 Val Leu Gln Ala Cys Glu Lys Val Gly Met Gln Ile Pro Arg Phe Cys
 50 55 60
 Tyr His Glu Arg Leu Ser Val Ala Gly Asn Cys Arg Met Cys Leu Val
 65 70 75 80

Glu	Ile	Glu	Lys	Ala	Pro	Lys	Val	Val	Ala	Ala	Cys	Ala	Met	Pro	Val	85	90	95
Met	Lys	Gly	Trp	Asn	Ile	Leu	Thr	Asn	Ser	Glu	Lys	Ser	Lys	Lys	Ala	100	105	110
Arg	Glu	Gly	Val	Met	Glu	Phe	Leu	Leu	Ala	Asn	His	Pro	Leu	Asp	Cys	115	120	125
Pro	Ile	Cys	Asp	Gln	Gly	Gly	Glu	Cys	Asp	Leu	Gln	Asp	Gln	Ser	Met	130	135	140
Met	Phe	Gly	Asn	Asp	Arg	Ser	Arg	Phe	Leu	Glu	Gly	Lys	Arg	Ala	Val	145	150	155
Glu	Asp	Lys	Asn	Ile	Gly	Pro	Leu	Val	Lys	Thr	Ile	Met	Thr	Arg	Cys	165	170	175
Ile	Gln	Cys	Thr	Arg	Cys	Ile	Arg	Phe	Ala	Ser	Glu	Ile	Ala	Gly	Val	180	185	190
Asp	Asp	Leu	Gly	Thr	Thr	Gly	Arg	Gly	Asn	Asp	Met	Gln	Val	Gly	Thr	195	200	205
Tyr	Ile	Glu	Lys	Met	Phe	Met	Ser	Glu	Leu	Ser	Gly	Asn	Ile	Ile	Asp	210	215	220
Ile	Cys	Pro	Val	Gly	Ala	Leu	Thr	Ser	Lys	Pro	Tyr	Ala	Phe	Thr	Ala	225	230	235
Arg	Pro	Trp	Glu	Thr	Arg	Lys	Thr	Glu	Ser	Ile	Asp	Val	Met	Asp	Ala	245	250	255
Val	Gly	Ser	Asn	Ile	Val	Val	Ser	Thr	Arg	Thr	Gly	Glu	Val	Met	Arg	260	265	270
Ile	Leu	Pro	Arg	Met	His	Glu	Asp	Ile	Asn	Glu	Glu	Trp	Ile	Ser	Asp	275	280	285
Lys	Thr	Arg	Phe	Ala	Tyr	Asp	Gly	Leu	Lys	Arg	Gln	Arg	Leu	Thr	Glu	290	295	300
Pro	Met	Val	Arg	Asn	Glu	Lys	Gly	Leu	Leu	Thr	Tyr	Thr	Ser	Trp	Glu	305	310	315
Asp	Ala	Leu	Ser	Arg	Val	Ala	Gly	Met	Leu	Gln	Ser	Phe	Gln	Gly	Lys	325	330	335
Asp	Val	Ala	Ala	Ile	Ala	Gly	Gly	Leu	Val	Asp	Ala	Glu	Ala	Leu	Val	340	345	350
Ala	Leu	Lys	Asp	Leu	Leu	Asn	Arg	Val	Asp	Ser	Asp	Thr	Leu	Cys	Thr	355	360	365

Glu Glu Val Phe Pro Thr Ala Gly Ala Gly Thr Asp Leu Arg Ser Asn
 370 375 380
 Tyr Leu Leu Asn Thr Thr Ile Ala Gly Val Glu Glu Ala Asp Val Val
 385 390 395 400
 Leu Leu Val Gly Thr Asn Pro Arg Phe Glu Ala Pro Leu Phe Asn Ala
 405 410 415
 Trp Ile Arg Lys Ser Trp Leu His Asn Asp Leu Lys Val Ala Leu Ile
 420 425 430
 Gly Ser Pro Val Asp Leu Thr Tyr Thr Tyr Asp His Leu Gly Asp Ser
 435 440 445
 Pro Lys Ile Leu Gln Asp Ile Ala Ser Gly Ser His Pro Phe Ser Gln
 450 455 460
 Val Leu Lys Glu Ala Lys Lys Pro Met Val Val Leu Gly Ser Ser Ala
 465 470 475 480
 Leu Gln Arg Asn Asp Gly Ala Ala Ile Leu Ala Ala Val Ser Ser Ile
 485 490 495
 Ala Gln Lys Ile Arg Met Thr Ser Gly Val Thr Gly Asp Trp Lys Val
 500 505 510
 Met Asn Ile Leu His Arg Ile Ala Ser Gln Val Ala Ala Leu Asp Leu
 515 520 525
 Gly Tyr Lys Pro Gly Val Glu Ala Ile Arg Lys Asn Pro Pro Lys Val
 530 535 540
 Leu Phe Leu Leu Gly Ala Asp Gly Gly Cys Ile Thr Arg Gln Asp Leu
 545 550 555 560
 Pro Lys Asp Cys Phe Ile Ile Tyr Gln Gly His His Gly Asp Val Gly
 565 570 575
 Ala Pro Ile Ala Asp Val Ile Leu Pro Gly Ala Ala Tyr Thr Glu Lys
 580 585 590
 Ser Ala Thr Tyr Val Asn Thr Glu Gly Arg Ala Gln Gln Thr Lys Val
 595 600 605
 Ala Val Thr Pro Pro Gly Leu Ala Arg Glu Asp Trp Lys Ile Ile Arg
 610 615 620
 Ala Leu Ser Glu Ile Ala Gly Met Thr Leu Pro Tyr Asp Thr Leu Asp
 625 630 635 640
 Gln Val Arg Asn Arg Leu Glu Glu Phe Ser Pro Asn Leu Val Arg Tyr
 645 650 655

Asp Asp Ile Glu Gly Ala Asn Tyr Phe Gln Gln Ala Asn Glu Leu Ser
 660 665 670
 Lys Leu Val Asn Gln Gln Leu Leu Ala Asp Pro Leu Val Pro Pro Gln
 675 680 685
 Leu Thr Leu Lys Asp Phe Tyr Met Thr Asp Ser Ile Ser Arg Ala Ser
 690 695 700
 Gln Thr Met Ala Lys Cys Val Lys Ala Val Thr Glu Gly Ala Gln Ala
 705 710 715 720
 Val Glu Glu Pro Ser Ile Cys
 725

<210> 43
 <211> 491
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Pre-B cell enhancing factor precursor; Accession NO:
 as of 09 Dec 2002: P43490

<400> 43
 Met Asn Pro Ala Ala Glu Ala Glu Phe Asn Ile Leu Leu Ala Thr Asp
 1 5 10 15
 Ser Tyr Lys Val Thr His Tyr Lys Gln Tyr Pro Pro Asn Thr Ser Lys
 20 25 30
 Val Tyr Ser Tyr Phe Glu Cys Arg Glu Lys Lys Thr Glu Asn Ser Lys
 35 40 45
 Leu Arg Lys Val Lys Tyr Glu Glu Thr Val Phe Tyr Gly Leu Gln Tyr
 50 55 60
 Ile Leu Asn Lys Tyr Leu Lys Gly Lys Val Val Thr Lys Glu Lys Ile
 65 70 75 80
 Gln Glu Ala Lys Asp Val Tyr Lys Glu His Phe Gln Asp Asp Val Phe
 85 90 95
 Asn Glu Lys Gly Trp Asn Tyr Ile Leu Glu Lys Tyr Asp Gly His Leu
 100 105 110
 Pro Ile Glu Ile Lys Ala Val Pro Glu Gly Phe Val Ile Pro Arg Gly
 115 120 125
 Asn Val Leu Phe Thr Val Glu Asn Thr Asp Pro Glu Cys Tyr Trp Leu
 130 135 140

Thr	Asn	Trp	Ile	Glu	Thr	Ile	Leu	Val	Gln	Ser	Trp	Tyr	Pro	Ile	Thr	145	150	155	160
Val	Ala	Thr	Asn	Ser	Arg	Glu	Gln	Lys	Lys	Ile	Leu	Ala	Lys	Tyr	Leu	165	170	175	
Leu	Glu	Thr	Ser	Gly	Asn	Leu	Asp	Gly	Leu	Glu	Tyr	Lys	Leu	His	Asp	180	185	190	
Phe	Gly	Tyr	Arg	Gly	Val	Ser	Ser	Gln	Glu	Thr	Ala	Gly	Ile	Gly	Ala	195	200	205	
Ser	Ala	His	Leu	Val	Asn	Phe	Lys	Gly	Thr	Asp	Thr	Val	Ala	Gly	Leu	210	215	220	
Ala	Leu	Ile	Lys	Lys	Tyr	Tyr	Gly	Thr	Lys	Asp	Pro	Val	Pro	Gly	Tyr	225	230	235	240
Ser	Val	Pro	Ala	Ala	Glu	His	Ser	Thr	Ile	Thr	Ala	Trp	Gly	Lys	Asp	245	250	255	
His	Glu	Lys	Asp	Ala	Phe	Glu	His	Ile	Val	Thr	Gln	Phe	Ser	Ser	Val	260	265	270	
Pro	Val	Ser	Val	Val	Ser	Asp	Ser	Tyr	Asp	Ile	Tyr	Asn	Ala	Cys	Glu	275	280	285	
Lys	Ile	Trp	Gly	Glu	Asp	Leu	Arg	His	Leu	Ile	Val	Ser	Arg	Ser	Thr	290	295	300	
Gln	Ala	Pro	Leu	Ile	Ile	Arg	Pro	Asp	Ser	Gly	Asn	Pro	Leu	Asp	Thr	305	310	315	320
Val	Leu	Lys	Val	Leu	Glu	Ile	Leu	Gly	Lys	Lys	Phe	Pro	Val	Thr	Glu	325	330	335	
Asn	Ser	Lys	Gly	Tyr	Lys	Leu	Leu	Pro	Pro	Tyr	Leu	Arg	Val	Ile	Gln	340	345	350	
Gly	Asp	Gly	Val	Asp	Ile	Asn	Thr	Leu	Gln	Glu	Ile	Val	Glu	Gly	Met	355	360	365	
Lys	Gln	Lys	Met	Trp	Ser	Ile	Glu	Asn	Ile	Ala	Phe	Gly	Ser	Gly	Gly	370	375	380	
Gly	Leu	Leu	Gln	Lys	Leu	Thr	Arg	Asp	Leu	Leu	Asn	Cys	Ser	Phe	Lys	385	390	395	400
Cys	Ser	Tyr	Val	Val	Thr	Asn	Gly	Leu	Gly	Ile	Asn	Val	Phe	Lys	Asp	405	410	415	
Pro	Val	Ala	Asp	Pro	Asn	Lys	Arg	Ser	Lys	Lys	Gly	Arg	Leu	Ser	Leu	420	425	430	

His Arg Thr Pro Ala Gly Asn Phe Val Thr Leu Glu Glu Gly Lys Gly
 435 440 445

Asp Leu Glu Glu Tyr Gly Gln Asp Leu Leu His Thr Val Phe Lys Asn
 450 455 460

Gly Lys Val Thr Lys Ser Tyr Ser Phe Asp Glu Ile Arg Lys Asn Ala
 465 470 475 480

Gln Leu Asn Ile Glu Leu Glu Ala Ala His His
 485 490

<210> 44

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<223> Retinol-binding protein I, cellular; Accession NO:
 as of 09 Dec 2002: P09455

<400> 44

Met Pro Val Asp Phe Thr Gly Tyr Trp Lys Met Leu Val Asn Glu Asn
 1 5 10 15

Phe Glu Glu Tyr Leu Arg Ala Leu Asp Val Asn Val Ala Leu Arg Lys
 20 25 30

Ile Ala Asn Leu Leu Lys Pro Asp Lys Glu Ile Val Gln Asp Gly Asp
 35 40 45

His Met Ile Ile Arg Thr Leu Ser Thr Phe Arg Asn Tyr Ile Met Asp
 50 55 60

Phe Gln Val Gly Lys Glu Phe Glu Glu Asp Leu Thr Gly Ile Asp Asp
 65 70 75 80

Arg Lys Cys Met Thr Thr Val Ser Trp Asp Gly Asp Lys Leu Gln Cys
 85 90 95

Val Gln Lys Gly Glu Lys Glu Gly Arg Gly Trp Thr Gln Trp Ile Glu
 100 105 110

Gly Asp Glu Leu His Leu Glu Met Arg Val Glu Gly Val Val Cys Lys
 115 120 125

Gln Val Phe Lys Lys Val Gln
 130 135

<210> 45
 <211> 544
 <212> PRT
 <213> Homo sapiens

<220>

<223> T-complex protein 1, gamma subunit; Accession NO:
 as of 09 Dec 2002: P49368

<400> 45

Met	Gly	His	Arg	Pro	Val	Leu	Val	Leu	Ser	Gln	Asn	Thr	Lys	Arg	Glu	1	5	10	15
Ser	Gly	Arg	Lys	Val	Gln	Ser	Gly	Asn	Ile	Asn	Ala	Ala	Lys	Thr	Ile	20	25	30	
Ala	Asp	Ile	Ile	Arg	Thr	Cys	Leu	Gly	Pro	Lys	Ser	Met	Met	Lys	Met	35	40	45	
Leu	Leu	Asp	Pro	Met	Gly	Gly	Ile	Val	Met	Thr	Asn	Asp	Gly	Asn	Ala	50	55	60	
Ile	Leu	Arg	Glu	Ile	Gln	Val	Gln	His	Pro	Ala	Ala	Lys	Ser	Met	Ile	65	70	75	80
Glu	Ile	Ser	Arg	Thr	Gln	Asp	Glu	Glu	Val	Gly	Asp	Gly	Thr	Thr	Ser	85	90	95	
Val	Ile	Ile	Leu	Ala	Gly	Glu	Met	Leu	Ser	Val	Ala	Glu	His	Phe	Leu	100	105	110	
Glu	Gln	Gln	Met	His	Pro	Thr	Val	Val	Ile	Ser	Ala	Tyr	Arg	Lys	Ala	115	120	125	
Leu	Asp	Asp	Met	Ile	Ser	Thr	Leu	Lys	Lys	Ile	Ser	Ile	Pro	Val	Asp	130	135	140	
Ile	Ser	Asp	Ser	Asp	Met	Met	Leu	Asn	Ile	Ile	Asn	Ser	Ser	Ile	Thr	145	150	155	160
Thr	Lys	Ala	Ile	Ser	Arg	Trp	Ser	Ser	Leu	Ala	Cys	Asn	Ile	Ala	Leu	165	170	175	
Asp	Ala	Val	Lys	Met	Val	Gln	Phe	Glu	Glu	Asn	Gly	Arg	Lys	Glu	Ile	180	185	190	
Asp	Ile	Lys	Lys	Tyr	Ala	Arg	Val	Glu	Lys	Ile	Pro	Gly	Gly	Ile	Ile	195	200	205	
Glu	Asp	Ser	Cys	Val	Leu	Arg	Gly	Val	Met	Ile	Asn	Lys	Asp	Val	Thr	210	215	220	
His	Pro	Arg	Met	Arg	Arg	Tyr	Ile	Lys	Asn	Pro	Arg	Ile	Val	Leu	Leu	225	230	235	240

Asp	Ser	Ser	Leu	Glu	Tyr	Lys	Lys	Gly	Glu	Ser	Gln	Thr	Asp	Ile	Glu	245	250	255	
Ile	Thr	Arg	Glu	Glu	Asp	Phe	Thr	Arg	Ile	Leu	Gln	Met	Glu	Glu	Glu	260	265	270	
Tyr	Ile	Gln	Gln	Leu	Cys	Glu	Asp	Ile	Ile	Gln	Leu	Lys	Pro	Asp	Val	275	280	285	
Val	Ile	Thr	Glu	Lys	Gly	Ile	Ser	Asp	Leu	Ala	Gln	His	Tyr	Leu	Met	290	295	300	
Arg	Ala	Asn	Ile	Thr	Ala	Ile	Arg	Arg	Val	Arg	Lys	Thr	Asp	Asn	Asn	305	310	315	320
Arg	Ile	Ala	Arg	Ala	Cys	Gly	Ala	Arg	Ile	Val	Ser	Arg	Pro	Glu	Glu	325	330	335	
Leu	Arg	Glu	Asp	Asp	Val	Gly	Thr	Gly	Ala	Gly	Leu	Leu	Glu	Ile	Lys	340	345	350	
Lys	Ile	Gly	Asp	Glu	Tyr	Phe	Thr	Phe	Ile	Thr	Asp	Cys	Lys	Asp	Pro	355	360	365	
Lys	Ala	Cys	Thr	Ile	Leu	Leu	Arg	Gly	Ala	Ser	Lys	Glu	Ile	Leu	Ser	370	375	380	
Glu	Val	Glu	Arg	Asn	Leu	Gln	Asp	Ala	Met	Gln	Val	Cys	Arg	Asn	Val	385	390	395	400
Leu	Leu	Asp	Pro	Gln	Leu	Val	Pro	Gly	Gly	Gly	Ala	Ser	Glu	Met	Ala	405	410	415	
Val	Ala	His	Ala	Leu	Thr	Glu	Lys	Ser	Lys	Ala	Met	Thr	Gly	Val	Glu	420	425	430	
Gln	Trp	Pro	Tyr	Arg	Ala	Val	Ala	Gln	Ala	Leu	Glu	Val	Ile	Pro	Arg	435	440	445	
Thr	Leu	Ile	Gln	Asn	Cys	Gly	Ala	Ser	Thr	Ile	Arg	Leu	Leu	Thr	Ser	450	455	460	
Leu	Arg	Ala	Lys	His	Thr	Gln	Glu	Asn	Cys	Glu	Thr	Trp	Gly	Val	Asn	465	470	475	480
Gly	Glu	Thr	Gly	Thr	Leu	Val	Asp	Met	Lys	Glu	Leu	Gly	Ile	Trp	Glu	485	490	495	
Pro	Leu	Ala	Val	Lys	Leu	Gln	Thr	Tyr	Lys	Thr	Ala	Val	Glu	Thr	Ala	500	505	510	
Val	Leu	Leu	Leu	Arg	Ile	Asp	Asp	Ile	Val	Ser	Gly	His	Lys	Lys	Lys	515	520	525	

Gly Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu
 530 535 540

<210> 46
 <211> 461
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Placental ribonuclease inhibitor; Accession NO:
 as of 09 Dec 2002: P13489

<400> 46
 Met Ser Leu Asp Ile Gln Ser Leu Asp Ile Gln Cys Glu Glu Leu Ser
 1 5 10 15
 Asp Ala Arg Trp Ala Glu Leu Leu Pro Leu Leu Gln Gln Cys Gln Val
 20 25 30
 Val Arg Leu Asp Asp Cys Gly Leu Thr Glu Ala Arg Cys Lys Asp Ile
 35 40 45
 Ser Ser Ala Leu Arg Val Asn Pro Ala Leu Ala Glu Leu Asn Leu Arg
 50 55 60
 Ser Asn Glu Leu Gly Asp Val Gly Val His Cys Val Leu Gln Gly Leu
 65 70 75 80
 Gln Thr Pro Ser Cys Lys Ile Gln Lys Leu Ser Leu Gln Asn Cys Cys
 85 90 95
 Leu Thr Gly Ala Gly Cys Gly Val Leu Ser Ser Thr Leu Arg Thr Leu
 100 105 110
 Pro Thr Leu Gln Glu Leu His Leu Ser Asp Asn Leu Leu Gly Asp Ala
 115 120 125
 Gly Leu Gln Leu Leu Cys Glu Gly Leu Leu Asp Pro Gln Cys Arg Leu
 130 135 140
 Glu Lys Leu Gln Leu Glu Tyr Cys Ser Leu Ser Ala Ala Ser Cys Glu
 145 150 155 160
 Pro Leu Ala Ser Val Leu Arg Ala Lys Pro Asp Phe Lys Glu Leu Thr
 165 170 175
 Val Ser Asn Asn Asp Ile Asn Glu Ala Gly Val Arg Val Leu Cys Gln
 180 185 190
 Gly Leu Lys Asp Ser Pro Cys Gln Leu Glu Ala Leu Lys Leu Glu Ser
 195 200 205

Cys Gly Val Thr Ser Asp Asn Cys Arg Asp Leu Cys Gly Ile Val Ala
 210 215 220
 Ser Lys Ala Ser Leu Arg Glu Leu Ala Leu Gly Ser Asn Lys Leu Gly
 225 230 235 240
 Asp Val Gly Met Ala Glu Leu Cys Pro Gly Leu Leu His Pro Ser Ser
 245 250 255
 Arg Leu Arg Thr Leu Trp Ile Trp Glu Cys Gly Ile Thr Ala Lys Gly
 260 265 270
 Cys Gly Asp Leu Cys Arg Val Leu Arg Ala Lys Glu Ser Leu Lys Glu
 275 280 285
 Leu Ser Leu Ala Gly Asn Glu Leu Gly Asp Glu Gly Ala Arg Leu Leu
 290 295 300
 Cys Glu Thr Leu Leu Glu Pro Gly Cys Gln Leu Glu Ser Leu Trp Val
 305 310 315 320
 Lys Ser Cys Ser Phe Thr Ala Ala Cys Cys Ser His Phe Ser Ser Val
 325 330 335
 Leu Ala Gln Asn Arg Phe Leu Leu Glu Leu Gln Ile Ser Asn Asn Arg
 340 345 350
 Leu Glu Asp Ala Gly Val Arg Glu Leu Cys Gln Gly Leu Gly Gln Pro
 355 360 365
 Gly Ser Val Leu Arg Val Leu Trp Leu Ala Asp Cys Asp Val Ser Asp
 370 375 380
 Ser Ser Cys Ser Ser Leu Ala Ala Thr Leu Leu Ala Asn His Ser Leu
 385 390 395 400
 Arg Glu Leu Asp Leu Ser Asn Asn Cys Leu Gly Asp Ala Gly Ile Leu
 405 410 415
 Gln Leu Val Glu Ser Val Arg Gln Pro Gly Cys Leu Leu Glu Gln Leu
 420 425 430
 Val Leu Tyr Asp Ile Tyr Trp Ser Glu Glu Met Glu Asp Arg Leu Gln
 435 440 445
 Ala Leu Glu Lys Asp Lys Pro Ser Leu Arg Val Ile Ser
 450 455 460

<210> 47

<211> 317

<212> PRT

<213> Homo sapiens

<220>

<223> Guanine nucleotide-binding protein beta subunit-like
protein 12.3; Accession NO: as of 09 Dec 2002: P25388

<400> 47

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Met Thr Glu Gln Met Thr Leu Arg Gly Thr Leu Lys Gly His Asn Gly
1           5           10           15

Trp Val Thr Gln Ile Ala Thr Thr Pro Gln Phe Pro Asp Met Ile Leu
          20           25           30

Ser Ala Ser Arg Asp Lys Thr Ile Ile Met Trp Lys Leu Thr Arg Asp
          35           40           45

Glu Thr Asn Tyr Gly Ile Pro Gln Arg Ala Leu Arg Gly His Ser His
          50           55           60

Phe Val Ser Asp Val Val Ile Ser Ser Asp Gly Gln Phe Ala Leu Ser
65           70           75           80

Gly Ser Trp Asp Gly Thr Leu Arg Leu Trp Asp Leu Thr Thr Gly Thr
          85           90           95

Thr Thr Arg Arg Phe Val Gly His Thr Lys Asp Val Leu Ser Val Ala
          100          105          110

Phe Ser Ser Asp Asn Arg Gln Ile Val Ser Gly Ser Arg Asp Lys Thr
          115          120          125

Ile Lys Leu Trp Asn Thr Leu Gly Val Cys Lys Tyr Thr Val Gln Asp
          130          135          140

Glu Ser His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser
145          150          155          160

Ser Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Val Lys Val
          165          170          175

Trp Asn Leu Ala Asn Cys Lys Leu Lys Thr Asn His Ile Gly His Thr
          180          185          190

Gly Tyr Leu Asn Thr Val Thr Val Ser Pro Asp Gly Ser Leu Cys Ala
          195          200          205

Ser Gly Gly Lys Asp Gly Gln Ala Met Leu Trp Asp Leu Asn Glu Gly
          210          215          220

Lys His Leu Tyr Thr Leu Asp Gly Gly Asp Ile Ile Asn Ala Leu Cys
225          230          235          240

Phe Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Gly Pro Ser Ile
          245          250          255

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Lys Ile Trp Asp Leu Glu Gly Lys Ile Ile Val Asp Glu Leu Lys Gln
 260 265 270

Glu Val Ile Ser Thr Ser Ser Lys Ala Glu Pro Pro Gln Cys Thr Ser
 275 280 285

Leu Ala Trp Ser Ala Asp Gly Gln Thr Leu Phe Ala Gly Tyr Thr Asp
 290 295 300

Asn Leu Val Arg Val Trp Gln Val Thr Ile Gly Thr Arg
 305 310 315

<210> 48

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<223> Myosin regulatory light chain 2; Accession NO:
 as of 10 Dec 2002: P24844

<400> 48

Met Ser Ser Lys Arg Ala Lys Ala Lys Thr Thr Lys Lys Arg Pro Gln
 1 5 10 15

Arg Ala Thr Ser Asn Val Phe Ala Met Phe Asp Gln Ser Gln Ile Gln
 20 25 30

Glu Phe Lys Glu Ala Phe Asn Met Ile Asp Gln Asn Arg Asp Gly Phe
 35 40 45

Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser Leu Gly Lys Asn
 50 55 60

Pro Thr Asp Glu Tyr Leu Glu Gly Met Met Ser Glu Ala Pro Gly Pro
 65 70 75 80

Ile Asn Phe Thr Met Phe Leu Thr Met Phe Gly Glu Lys Leu Asn Gly
 85 90 95

Thr Asp Pro Glu Asp Val Ile Arg Asn Ala Phe Ala Cys Phe Asp Glu
 100 105 110

Glu Ala Ser Gly Phe Ile His Glu Asp His Leu Arg Glu Leu Leu Thr
 115 120 125

Thr Met Gly Asp Arg Phe Thr Asp Glu Glu Val Asp Glu Met Tyr Arg
 130 135 140

Glu Ala Pro Ile Asp Lys Lys Gly Asn Phe Asn Tyr Val Glu Phe Thr
 145 150 155 160

Arg Ile Leu Lys His Gly Ala Lys Asp Lys Asp Asp
 165 170

<210> 49
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Calgranulin B; Accession NO: as of 10 Dec 2002: P06702

<400> 49
 Met Thr Cys Lys Met Ser Gln Leu Glu Arg Asn Ile Glu Thr Ile Ile
 1 5 10 15
 Asn Thr Phe His Gln Tyr Ser Val Lys Leu Gly His Pro Asp Thr Leu
 20 25 30
 Asn Gln Gly Glu Phe Lys Glu Leu Val Arg Lys Asp Leu Gln Asn Phe
 35 40 45
 Leu Lys Lys Glu Asn Lys Asn Glu Lys Val Ile Glu His Ile Met Glu
 50 55 60
 Asp Leu Asp Thr Asn Ala Asp Lys Gln Leu Ser Phe Glu Glu Phe Ile
 65 70 75 80
 Met Leu Met Ala Arg Leu Thr Trp Ala Ser His Glu Lys Met His Glu
 85 90 95
 Gly Asp Glu Gly Pro Gly His His His Lys Pro Gly Leu Gly Glu Gly
 100 105 110
 Thr Pro

<210> 50
 <211> 348
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Macrophage capping protein; Accession NO:
 as of 10 Dec 2002: P40121

<400> 50
 Met Tyr Thr Ala Ile Pro Gln Ser Gly Ser Pro Phe Pro Gly Ser Val
 1 5 10 15

Gln	Asp	Pro	Gly	Leu	His	Val	Trp	Arg	Val	Glu	Lys	Leu	Lys	Pro	Val	20	25	30
Pro	Val	Ala	Gln	Glu	Asn	Gln	Gly	Val	Phe	Phe	Ser	Gly	Asp	Ser	Tyr	35	40	45
Leu	Val	Leu	His	Asn	Gly	Pro	Glu	Glu	Val	Ser	His	Leu	His	Leu	Trp	50	55	60
Ile	Gly	Gln	Gln	Ser	Ser	Arg	Asp	Glu	Gln	Gly	Ala	Cys	Ala	Val	Leu	65	70	75
Ala	Val	His	Leu	Asn	Thr	Leu	Leu	Gly	Glu	Arg	Pro	Val	Gln	His	Arg	85	90	95
Glu	Val	Gln	Gly	Asn	Glu	Ser	Asp	Leu	Phe	Met	Ser	Tyr	Phe	Pro	Arg	100	105	110
Gly	Leu	Lys	Tyr	Gln	Glu	Gly	Gly	Val	Glu	Ser	Ala	Phe	His	Lys	Thr	115	120	125
Ser	Thr	Gly	Ala	Pro	Ala	Ala	Ile	Lys	Lys	Leu	Tyr	Gln	Val	Lys	Gly	130	135	140
Lys	Lys	Asn	Ile	Arg	Ala	Thr	Glu	Arg	Ala	Leu	Asn	Trp	Asp	Ser	Phe	145	150	155
Asn	Thr	Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Gln	Asn	Ile	Phe	Ala	165	170	175
Trp	Cys	Gly	Gly	Lys	Ser	Asn	Ile	Leu	Glu	Arg	Asn	Lys	Ala	Arg	Asp	180	185	190
Leu	Ala	Leu	Ala	Ile	Arg	Asp	Ser	Glu	Arg	Gln	Gly	Lys	Ala	Gln	Val	195	200	205
Glu	Ile	Val	Thr	Asp	Gly	Glu	Glu	Pro	Ala	Glu	Met	Ile	Gln	Val	Leu	210	215	220
Gly	Pro	Lys	Pro	Ala	Leu	Lys	Glu	Gly	Asn	Pro	Glu	Glu	Asp	Leu	Thr	225	230	235
Ala	Asp	Lys	Ala	Asn	Ala	Gln	Ala	Ala	Ala	Leu	Tyr	Lys	Val	Ser	Asp	245	250	255
Ala	Thr	Gly	Gln	Met	Asn	Leu	Thr	Lys	Val	Ala	Asp	Ser	Ser	Pro	Phe	260	265	270
Ala	Leu	Glu	Leu	Leu	Ile	Ser	Asp	Asp	Cys	Phe	Val	Leu	Asp	Asn	Gly	275	280	285
Leu	Cys	Gly	Lys	Ile	Tyr	Ile	Trp	Lys	Gly	Arg	Lys	Ala	Asn	Glu	Lys	290	295	300

Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
 305 310 315 320

Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Arg Glu
 325 330 335

Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
 340 345

<210> 51
 <211> 346
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Annexin I; Accession NO: as of 10 Dec 2002: P04083

<400> 51
 Met Ala Met Val Ser Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn
 1 5 10 15
 Glu Glu Gln Glu Tyr Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro
 20 25 30
 Gly Ser Ala Val Ser Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val
 35 40 45
 Ala Ala Leu His Lys Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr
 50 55 60
 Ile Ile Asp Ile Leu Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile
 65 70 75 80
 Lys Ala Ala Tyr Leu Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu
 85 90 95
 Lys Lys Ala Leu Thr Gly His Leu Glu Glu Val Val Leu Ala Leu Leu
 100 105 110
 Lys Thr Pro Ala Gln Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys
 115 120 125
 Gly Leu Gly Thr Asp Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg
 130 135 140
 Thr Asn Lys Glu Ile Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu
 145 150 155 160
 Lys Arg Asp Leu Ala Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe
 165 170 175

Arg Asn Ala Leu Leu Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe
 180 185 190
 Gly Val Asn Glu Asp Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu
 195 200 205
 Ala Gly Glu Arg Arg Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile
 210 215 220
 Leu Thr Thr Arg Ser Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr
 225 230 235 240
 Thr Lys Tyr Ser Lys His Asp Met Asn Lys Val Leu Asp Leu Glu Leu
 245 250 255
 Lys Gly Asp Ile Glu Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr
 260 265 270
 Ser Lys Pro Ala Phe Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly
 275 280 285
 Val Gly Thr Arg His Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser
 290 295 300
 Glu Ile Asp Met Asn Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly
 305 310 315 320
 Ile Ser Leu Cys Gln Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu
 325 330 335
 Lys Ile Leu Val Ala Leu Cys Gly Gly Asn
 340 345

<210> 52
 <211> 469
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Keratin, type II cytoskeletal 7; Accession NO:
 as of 10 Dec 2002: P08729

<400> 52
 Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala
 1 5 10 15
 Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly
 20 25 30
 Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg
 35 40 45

Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg
 50 55 60
 Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala
 65 70 75 80
 Asp Pro Ser Leu Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys
 85 90 95
 Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu
 100 105 110
 Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu
 115 120 125
 Gln Lys Ser Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln
 130 135 140
 Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly
 145 150 155 160
 Arg Leu Glu Gln Gly Leu Arg Thr Met Gln Asp Val Val Glu Asp Phe
 165 170 175
 Lys Asn Lys Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn
 180 185 190
 Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys
 195 200 205
 Val Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe
 210 215 220
 Leu Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile
 225 230 235 240
 Ser Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp
 245 250 255
 Leu Asp Gly Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala
 260 265 270
 Lys Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu
 275 280 285
 Thr Leu Gln Ala Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr
 290 295 300
 Arg Asn Glu Ile Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala
 305 310 315 320
 Glu Ile Asp Asn Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile
 325 330 335

Ala Glu Ala Glu Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala
 340 345 350

Lys Gln Glu Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met
 355 360 365

Ala Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala
 370 375 380

Leu Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu
 385 390 395 400

Ser Arg Leu Ala Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met
 405 410 415

Asn Ser Thr Gly Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu
 420 425 430

Gly Gly Thr Met Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly
 435 440 445

Pro Gly Leu Leu Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg
 450 455 460

Arg Ser Ala Arg Asp
 465

<210> 53

<211> 836

<212> PRT

<213> Homo sapiens

<220>

<223> Osteoblast specific factor 2 precursor; Accession NO:
 as of 10 Dec 2002: Q15063

<400> 53

Met Ile Pro Phe Leu Pro Met Phe Ser Leu Leu Leu Leu Leu Ile Val
 1 5 10 15

Asn Pro Ile Asn Ala Asn Asn His Tyr Asp Lys Ile Leu Ala His Ser
 20 25 30

Arg Ile Arg Gly Arg Asp Gln Gly Pro Asn Val Cys Ala Leu Gln Gln
 35 40 45

Ile Leu Gly Thr Lys Lys Lys Tyr Phe Ser Thr Cys Lys Asn Trp Tyr
 50 55 60

Lys Lys Ser Ile Cys Gly Gln Lys Thr Thr Val Leu Tyr Glu Cys Cys
 65 70 75 80

Pro	Gly	Tyr	Met	Arg	Met	Glu	Gly	Met	Lys	Gly	Cys	Pro	Ala	Val	Leu	85	90	95
Pro	Ile	Asp	His	Val	Tyr	Gly	Thr	Leu	Gly	Ile	Val	Gly	Ala	Thr	Thr	100	105	110
Thr	Gln	Arg	Tyr	Ser	Asp	Ala	Ser	Lys	Leu	Arg	Glu	Glu	Ile	Glu	Gly	115	120	125
Lys	Gly	Ser	Phe	Thr	Tyr	Phe	Ala	Pro	Ser	Asn	Glu	Ala	Trp	Asp	Asn	130	135	140
Leu	Asp	Ser	Asp	Ile	Arg	Arg	Gly	Leu	Glu	Ser	Asn	Val	Asn	Val	Glu	145	150	155
Leu	Leu	Asn	Ala	Leu	His	Ser	His	Met	Ile	Asn	Lys	Arg	Met	Leu	Thr	165	170	175
Lys	Asp	Leu	Lys	Asn	Gly	Met	Ile	Ile	Pro	Ser	Met	Tyr	Asn	Asn	Leu	180	185	190
Gly	Leu	Phe	Ile	Asn	His	Tyr	Pro	Asn	Gly	Val	Val	Thr	Val	Asn	Cys	195	200	205
Ala	Arg	Ile	Ile	His	Gly	Asn	Gln	Ile	Ala	Thr	Asn	Gly	Val	Val	His	210	215	220
Val	Ile	Asp	Arg	Val	Leu	Thr	Gln	Ile	Gly	Thr	Ser	Ile	Gln	Asp	Phe	225	230	235
Ile	Glu	Ala	Glu	Asp	Asp	Leu	Ser	Ser	Phe	Arg	Ala	Ala	Ala	Ile	Thr	245	250	255
Ser	Asp	Ile	Leu	Glu	Ala	Leu	Gly	Arg	Asp	Gly	His	Phe	Thr	Leu	Phe	260	265	270
Ala	Pro	Thr	Asn	Glu	Ala	Phe	Glu	Lys	Leu	Pro	Arg	Gly	Val	Leu	Glu	275	280	285
Arg	Phe	Met	Gly	Asp	Lys	Val	Ala	Ser	Glu	Ala	Leu	Met	Lys	Tyr	His	290	295	300
Ile	Leu	Asn	Thr	Leu	Gln	Cys	Ser	Glu	Ser	Ile	Met	Gly	Gly	Ala	Val	305	310	315
Phe	Glu	Thr	Leu	Glu	Gly	Asn	Thr	Ile	Glu	Ile	Gly	Cys	Asp	Gly	Asp	325	330	335
Ser	Ile	Thr	Val	Asn	Gly	Ile	Lys	Met	Val	Asn	Lys	Lys	Asp	Ile	Val	340	345	350
Thr	Asn	Asn	Gly	Val	Ile	His	Leu	Ile	Asp	Gln	Val	Leu	Ile	Pro	Asp	355	360	365

Ser Ala Lys Gln Val Ile Glu Leu Ala Gly Lys Gln Gln Thr Thr Phe
 370 375 380
 Thr Asp Leu Val Ala Gln Leu Gly Leu Ala Ser Ala Leu Arg Pro Asp
 385 390 395 400
 Gly Glu Tyr Thr Leu Leu Ala Pro Val Asn Asn Ala Phe Ser Asp Asp
 405 410 415
 Thr Leu Ser Met Val Gln Arg Leu Leu Lys Leu Ile Leu Gln Asn His
 420 425 430
 Ile Leu Lys Val Lys Val Gly Leu Asn Glu Leu Tyr Asn Gly Gln Ile
 435 440 445
 Leu Glu Thr Ile Gly Gly Lys Gln Leu Arg Val Phe Val Tyr Arg Thr
 450 455 460
 Ala Val Cys Ile Glu Asn Ser Cys Met Glu Lys Gly Ser Lys Gln Gly
 465 470 475 480
 Arg Asn Gly Ala Ile His Ile Phe Arg Glu Ile Ile Lys Pro Ala Glu
 485 490 495
 Lys Ser Leu His Glu Lys Leu Lys Gln Asp Lys Arg Phe Ser Thr Phe
 500 505 510
 Leu Ser Leu Leu Glu Ala Ala Asp Leu Lys Glu Leu Leu Thr Gln Pro
 515 520 525
 Gly Asp Trp Thr Leu Phe Val Pro Thr Asn Asp Ala Phe Lys Gly Met
 530 535 540
 Thr Ser Glu Glu Lys Glu Ile Leu Ile Arg Asp Lys Asn Ala Leu Gln
 545 550 555 560
 Asn Ile Ile Leu Tyr His Leu Thr Pro Gly Val Phe Ile Gly Lys Gly
 565 570 575
 Phe Glu Pro Gly Val Thr Asn Ile Leu Lys Thr Thr Gln Gly Ser Lys
 580 585 590
 Ile Phe Leu Lys Glu Val Asn Asp Thr Leu Leu Val Asn Glu Leu Lys
 595 600 605
 Ser Lys Glu Ser Asp Ile Met Thr Thr Asn Gly Val Ile His Val Val
 610 615 620
 Asp Lys Leu Leu Tyr Pro Ala Asp Thr Pro Val Gly Asn Asp Gln Leu
 625 630 635 640
 Leu Glu Ile Leu Asn Lys Leu Ile Lys Tyr Ile Gln Ile Lys Phe Val
 645 650 655

Arg Gly Ser Thr Phe Lys Glu Ile Pro Val Thr Val Tyr Thr Thr Lys
 660 665 670
 Ile Ile Thr Lys Val Val Glu Pro Lys Ile Lys Val Ile Glu Gly Ser
 675 680 685
 Leu Gln Pro Ile Ile Lys Thr Glu Gly Pro Thr Leu Thr Lys Val Lys
 690 695 700
 Ile Glu Gly Glu Pro Glu Phe Arg Leu Ile Lys Glu Gly Glu Thr Ile
 705 710 715 720
 Thr Glu Val Ile His Gly Glu Pro Ile Ile Lys Lys Tyr Thr Lys Ile
 725 730 735
 Ile Asp Gly Val Pro Val Glu Ile Thr Glu Lys Glu Thr Arg Glu Glu
 740 745 750
 Arg Ile Ile Thr Gly Pro Glu Ile Lys Tyr Thr Arg Ile Ser Thr Gly
 755 760 765
 Gly Gly Glu Thr Glu Glu Thr Leu Lys Lys Leu Leu Gln Glu Glu Val
 770 775 780
 Thr Lys Val Thr Lys Phe Ile Glu Gly Gly Asp Gly His Leu Phe Glu
 785 790 795 800
 Asp Glu Glu Ile Lys Arg Leu Leu Gln Gly Asp Thr Pro Val Arg Lys
 805 810 815
 Leu Gln Ala Asn Lys Lys Val Gln Gly Ser Arg Arg Arg Leu Arg Glu
 820 825 830
 Gly Arg Ser Gln
 835

<210> 54
 <211> 687
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Protein-glutamine gamma-glutamyltransferase;
 Accession NO: P21980

<400> 54
 Met Ala Glu Glu Leu Val Leu Glu Arg Cys Asp Leu Glu Leu Glu Thr
 1 5 10 15
 Asn Gly Arg Asp His His Thr Ala Asp Leu Cys Arg Glu Lys Leu Val
 20 25 30

Val	Arg	Arg	Gly	Gln	Pro	Phe	Trp	Leu	Thr	Leu	His	Phe	Glu	Gly	Arg	35	40	45
Asn	Tyr	Glu	Ala	Ser	Val	Asp	Ser	Leu	Thr	Phe	Ser	Val	Val	Thr	Gly	50	55	60
Pro	Ala	Pro	Ser	Gln	Glu	Ala	Gly	Thr	Lys	Ala	Arg	Phe	Pro	Leu	Arg	65	70	75
Asp	Ala	Val	Glu	Glu	Gly	Asp	Trp	Thr	Ala	Thr	Val	Val	Asp	Gln	Gln	85	90	95
Asp	Cys	Thr	Leu	Ser	Leu	Gln	Leu	Thr	Thr	Pro	Ala	Asn	Ala	Pro	Ile	100	105	110
Gly	Leu	Tyr	Arg	Leu	Ser	Leu	Glu	Ala	Ser	Thr	Gly	Tyr	Gln	Gly	Ser	115	120	125
Ser	Phe	Val	Leu	Gly	His	Phe	Ile	Leu	Leu	Phe	Asn	Ala	Trp	Cys	Pro	130	135	140
Ala	Asp	Ala	Val	Tyr	Leu	Asp	Ser	Glu	Glu	Glu	Arg	Gln	Glu	Tyr	Val	145	150	155
Leu	Thr	Gln	Gln	Gly	Phe	Ile	Tyr	Gln	Gly	Ser	Ala	Lys	Phe	Ile	Lys	165	170	175
Asn	Ile	Pro	Trp	Asn	Phe	Gly	Gln	Phe	Glu	Asp	Gly	Ile	Leu	Asp	Ile	180	185	190
Cys	Leu	Ile	Leu	Leu	Asp	Val	Asn	Pro	Lys	Phe	Leu	Lys	Asn	Ala	Gly	195	200	205
Arg	Asp	Cys	Ser	Arg	Arg	Ser	Ser	Pro	Val	Tyr	Val	Gly	Arg	Val	Val	210	215	220
Ser	Gly	Met	Val	Asn	Cys	Asn	Asp	Asp	Gln	Gly	Val	Leu	Leu	Gly	Arg	225	230	235
Trp	Asp	Asn	Asn	Tyr	Gly	Asp	Gly	Val	Ser	Pro	Met	Ser	Trp	Ile	Gly	245	250	255
Ser	Val	Asp	Ile	Leu	Arg	Arg	Trp	Lys	Asn	His	Gly	Cys	Gln	Arg	Val	260	265	270
Lys	Tyr	Gly	Gln	Cys	Trp	Val	Phe	Ala	Ala	Val	Ala	Cys	Thr	Val	Leu	275	280	285
Arg	Cys	Leu	Gly	Ile	Pro	Thr	Arg	Val	Val	Thr	Asn	Tyr	Asn	Ser	Ala	290	295	300
His	Asp	Gln	Asn	Ser	Asn	Leu	Leu	Ile	Glu	Tyr	Phe	Arg	Asn	Glu	Phe	305	310	315
																		320

Gly	Glu	Ile	Gln	Gly	Asp	Lys	Ser	Glu	Met	Ile	Trp	Asn	Phe	His	Cys
325				330				335							
Trp	Val	Glu	Ser	Trp	Met	Thr	Arg	Pro	Asp	Leu	Gln	Pro	Gly	Tyr	Glu
340				345				350							
Gly	Trp	Gln	Ala	Leu	Asp	Pro	Thr	Pro	Gln	Glu	Lys	Ser	Glu	Gly	Thr
355				360				365							
Tyr	Cys	Cys	Gly	Pro	Val	Pro	Val	Arg	Ala	Ile	Lys	Glu	Gly	Asp	Leu
370				375				380							
Ser	Thr	Lys	Tyr	Asp	Ala	Pro	Phe	Val	Phe	Ala	Glu	Val	Asn	Ala	Asp
385				390				395				400			
Val	Val	Asp	Trp	Ile	Gln	Gln	Asp	Asp	Gly	Ser	Val	His	Lys	Ser	Ile
				405				410				415			
Asn	Arg	Ser	Leu	Ile	Val	Gly	Leu	Lys	Ile	Ser	Thr	Lys	Ser	Val	Gly
				420				425				430			
Arg	Asp	Glu	Arg	Glu	Asp	Ile	Thr	His	Thr	Tyr	Lys	Tyr	Pro	Glu	Gly
				435				440				445			
Ser	Ser	Glu	Glu	Arg	Glu	Ala	Phe	Thr	Arg	Ala	Asn	His	Leu	Asn	Lys
450				455				460							
Leu	Ala	Glu	Lys	Glu	Glu	Thr	Gly	Met	Ala	Met	Arg	Ile	Arg	Val	Gly
465				470				475				480			
Gln	Ser	Met	Asn	Met	Gly	Ser	Asp	Phe	Asp	Val	Phe	Ala	His	Ile	Thr
				485				490				495			
Asn	Asn	Thr	Ala	Glu	Glu	Tyr	Val	Cys	Arg	Leu	Leu	Leu	Cys	Ala	Arg
500				505				510							
Thr	Val	Ser	Tyr	Asn	Gly	Ile	Leu	Gly	Pro	Glu	Cys	Gly	Thr	Lys	Tyr
515				520				525							
Leu	Leu	Asn	Leu	Asn	Leu	Glu	Pro	Phe	Ser	Glu	Lys	Ser	Val	Pro	Leu
530				535				540							
Cys	Ile	Leu	Tyr	Glu	Lys	Tyr	Arg	Asp	Cys	Leu	Thr	Glu	Ser	Asn	Leu
545				550				555				560			
Ile	Lys	Val	Arg	Ala	Leu	Leu	Val	Glu	Pro	Val	Ile	Asn	Ser	Tyr	Leu
				565				570				575			
Leu	Ala	Glu	Arg	Asp	Leu	Tyr	Leu	Glu	Asn	Pro	Glu	Ile	Lys	Ile	Arg
580				585				590							
Ile	Leu	Gly	Glu	Pro	Lys	Gln	Lys	Arg	Lys	Leu	Val	Ala	Glu	Val	Ser
595				600				605							

Leu Gln Asn Pro Leu Pro Val Ala Leu Glu Gly Cys Thr Phe Thr Val
 610 615 620
 Glu Gly Ala Gly Leu Thr Glu Glu Gln Lys Thr Val Glu Ile Pro Asp
 625 630 635 640
 Pro Val Glu Ala Gly Glu Glu Val Lys Val Arg Met Asp Leu Leu Pro
 645 650 655
 Leu His Met Gly Leu His Lys Leu Val Val Asn Phe Glu Ser Asp Lys
 660 665 670
 Leu Lys Ala Val Lys Gly Phe Arg Asn Val Ile Ile Gly Pro Ala
 675 680 685

<210> 55
 <211> 204
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Rho GDP-dissociation inhibitor 1;
 Accession NO: as of 10 Dec 2002: P52565

<400> 55
 Met Ala Glu Gln Glu Pro Thr Ala Glu Gln Leu Ala Gln Ile Ala Ala
 1 5 10 15
 Glu Asn Glu Glu Asp Glu His Ser Val Asn Tyr Lys Pro Pro Ala Gln
 20 25 30
 Lys Ser Ile Gln Glu Ile Gln Glu Leu Asp Lys Asp Asp Glu Ser Leu
 35 40 45
 Arg Lys Tyr Lys Glu Ala Leu Leu Gly Arg Val Ala Val Ser Ala Asp
 50 55 60
 Pro Asn Val Pro Asn Val Val Val Thr Gly Leu Thr Leu Val Cys Ser
 65 70 75 80
 Ser Ala Pro Gly Pro Leu Glu Leu Asp Leu Thr Gly Asp Leu Glu Ser
 85 90 95
 Phe Lys Lys Gln Ser Phe Val Leu Lys Glu Gly Val Glu Tyr Arg Ile
 100 105 110
 Lys Ile Ser Phe Arg Val Asn Arg Glu Ile Val Ser Gly Met Lys Tyr
 115 120 125
 Ile Gln His Thr Tyr Arg Lys Gly Val Lys Ile Asp Lys Thr Asp Tyr
 130 135 140

Met Val Gly Ser Tyr Gly Pro Arg Ala Glu Glu Tyr Glu Phe Leu Thr
 145 150 155 160

Pro Val Glu Glu Ala Pro Lys Gly Met Leu Ala Arg Gly Ser Tyr Ser
 165 170 175

Ile Lys Ser Arg Phe Thr Asp Asp Asp Lys Thr Asp His Leu Ser Trp
 180 185 190

Glu Trp Asn Leu Thr Ile Lys Lys Asp Trp Lys Asp
 195 200

<210> 56
 <211> 492
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Fascin 2; Accession NO: as of 29 August 2003: 014926

<400> 56
 Met Pro Thr Asn Gly Leu His Gln Val Leu Lys Ile Gln Phe Gly Leu
 1 5 10 15

Val Asn Asp Thr Asp Arg Tyr Leu Thr Ala Glu Ser Phe Gly Phe Lys
 20 25 30

Val Asn Ala Ser Ala Pro Ser Leu Lys Arg Lys Gln Thr Trp Val Leu
 35 40 45

Glu Pro Asp Pro Gly Gln Gly Thr Ala Val Leu Leu Arg Ser Ser His
 50 55 60

Leu Gly Arg Tyr Leu Ser Ala Glu Glu Asp Gly Arg Val Ala Cys Glu
 65 70 75 80

Ala Glu Gln Pro Gly Arg Asp Cys Arg Phe Leu Val Leu Pro Gln Pro
 85 90 95

Asp Gly Arg Trp Val Leu Arg Ser Glu Pro His Gly Arg Phe Phe Gly
 100 105 110

Gly Thr Glu Asp Gln Leu Ser Cys Phe Ala Thr Ala Val Ser Pro Ala
 115 120 125

Glu Leu Trp Thr Val His Leu Ala Ile His Pro Gln Ala His Leu Leu
 130 135 140

Ser Val Ser Arg Arg Arg Tyr Val His Leu Cys Pro Arg Glu Asp Glu
 145 150 155 160

Met	Ala	Ala	Asp	Gly	Asp	Lys	Pro	Trp	Gly	Val	Asp	Ala	Leu	Leu	Thr	165	170	175
Leu	Ile	Phe	Arg	Ser	Arg	Arg	Tyr	Cys	Leu	Lys	Ser	Cys	Asp	Ser	Arg	180	185	190
Tyr	Leu	Arg	Ser	Asp	Gly	Arg	Leu	Val	Trp	Glu	Pro	Glu	Pro	Arg	Ala	195	200	205
Cys	Tyr	Thr	Leu	Glu	Phe	Lys	Ala	Gly	Lys	Leu	Ala	Phe	Lys	Asp	Cys	210	215	220
Asp	Gly	His	Tyr	Leu	Ala	Pro	Val	Gly	Pro	Ala	Gly	Thr	Leu	Lys	Ala	225	230	235
Gly	Arg	Asn	Thr	Arg	Pro	Gly	Lys	Asp	Glu	Leu	Phe	Asp	Leu	Glu	Glu	245	250	255
Ser	His	Pro	Gln	Val	Val	Leu	Val	Ala	Ala	Asn	His	Arg	Tyr	Val	Ser	260	265	270
Val	Arg	Gln	Gly	Val	Asn	Val	Ser	Ala	Asn	Gln	Asp	Asp	Glu	Leu	Asp	275	280	285
His	Glu	Thr	Phe	Leu	Met	Gln	Ile	Asp	Gln	Glu	Thr	Lys	Lys	Cys	Thr	290	295	300
Phe	Tyr	Ser	Ser	Thr	Gly	Gly	Tyr	Trp	Thr	Leu	Val	Thr	His	Gly	Gly	305	310	315
Ile	His	Ala	Thr	Ala	Thr	Gln	Val	Ser	Ala	Asn	Thr	Met	Phe	Glu	Met	325	330	335
Glu	Trp	Arg	Gly	Arg	Arg	Val	Ala	Leu	Lys	Ala	Ser	Asn	Gly	Arg	Tyr	340	345	350
Val	Cys	Met	Lys	Lys	Asn	Gly	Gln	Leu	Ala	Ala	Ile	Ser	Asp	Phe	Val	355	360	365
Gly	Lys	Asp	Glu	Glu	Phe	Thr	Leu	Lys	Leu	Ile	Asn	Arg	Pro	Ile	Leu	370	375	380
Val	Leu	Arg	Gly	Leu	Asp	Gly	Phe	Val	Cys	His	His	Arg	Gly	Ser	Asn	385	390	395
Gln	Leu	Asp	Thr	Asn	Arg	Ser	Val	Tyr	Asp	Val	Phe	His	Leu	Ser	Phe	405	410	415
Ser	Asp	Gly	Ala	Tyr	Arg	Ile	Arg	Gly	Arg	Asp	Gly	Gly	Phe	Trp	Tyr	420	425	430
Thr	Gly	Ser	His	Gly	Ser	Val	Cys	Ser	Asp	Gly	Glu	Arg	Ala	Glu	Asp	435	440	445

Phe Val Phe Glu Phe Arg Glu Arg Gly Arg Leu Ala Ile Arg Ala Arg
 450 455 460

Ser Gly Lys Tyr Leu Arg Gly Gly Ala Ser Gly Leu Leu Arg Ala Asp
 465 470 475 480

Ala Asp Ala Pro Ala Gly Thr Ala Leu Trp Glu Tyr
 485 490

<210> 57

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<223> Destrin (Actin-depolymerizing factor) (ADF);
 Accession NO: as of 29 August 2003: P18282

<400> 57

Met Ala Ser Gly Val Gln Val Ala Asp Glu Val Cys Arg Ile Phe Tyr
 1 5 10 15

Asp Met Lys Val Arg Lys Cys Ser Thr Pro Glu Glu Ile Lys Lys Arg
 20 25 30

Lys Lys Ala Val Ile Phe Cys Leu Ser Ala Asp Lys Lys Cys Ile Ile
 35 40 45

Val Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Val Thr Ile
 50 55 60

Thr Asp Pro Phe Lys His Phe Val Gly Met Leu Pro Glu Lys Asp Cys
 65 70 75 80

Arg Tyr Ala Leu Tyr Asp Ala Ser Phe Glu Thr Lys Glu Ser Arg Lys
 85 90 95

Glu Glu Leu Met Phe Phe Leu Trp Ala Pro Glu Leu Ala Pro Leu Lys
 100 105 110

Ser Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Phe
 115 120 125

Gln Gly Ile Lys His Glu Cys Gln Ala Asn Gly Pro Glu Asp Leu Asn
 130 135 140

Arg Ala Cys Ile Ala Glu Lys Leu Gly Gly Ser Leu Ile Val Ala Phe
 145 150 155 160

Glu Gly Cys Pro Val
 165

<210> 58
 <211> 492
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Fascin; Accession NO: as of 29 August 2003: Q16658

<400> 58
 Thr Ala Asn Gly Thr Ala Glu Ala Val Gln Ile Gln Phe Gly Leu Ile
 1 5 10 15
 Asn Cys Gly Asn Lys Tyr Leu Thr Ala Glu Ala Phe Gly Phe Lys Val
 20 25 30
 Asn Ala Ser Ala Ser Ser Leu Lys Lys Lys Gln Ile Trp Thr Leu Glu
 35 40 45
 Gln Pro Pro Asp Glu Ala Gly Ser Ala Ala Val Cys Leu Arg Ser His
 50 55 60
 Leu Gly Arg Tyr Leu Ala Ala Asp Lys Asp Gly Asn Val Thr Cys Glu
 65 70 75 80
 Arg Glu Val Pro Gly Pro Asp Cys Arg Phe Leu Ile Val Ala His Asp
 85 90 95
 Asp Gly Arg Trp Ser Leu Gln Ser Glu Ala His Arg Arg Tyr Phe Gly
 100 105 110
 Gly Thr Glu Asp Arg Leu Ser Cys Phe Ala Gln Thr Val Ser Pro Ala
 115 120 125
 Glu Lys Trp Ser Val His Ile Ala Met His Pro Gln Val Asn Ile Tyr
 130 135 140
 Ser Val Thr Arg Lys Arg Tyr Ala His Leu Ser Ala Arg Pro Ala Asp
 145 150 155 160
 Glu Ile Ala Val Asp Arg Asp Val Pro Trp Gly Val Asp Ser Leu Ile
 165 170 175
 Thr Leu Ala Phe Gln Asp Gln Arg Tyr Ser Val Gln Thr Ala Asp His
 180 185 190
 Arg Phe Leu Arg His Asp Gly Arg Leu Val Ala Arg Pro Glu Pro Ala
 195 200 205
 Thr Gly Tyr Thr Leu Glu Phe Arg Ser Gly Lys Val Ala Phe Arg Asp
 210 215 220

Cys	Glu	Gly	Arg	Tyr	Leu	Ala	Pro	Ser	Gly	Pro	Ser	Gly	Thr	Leu	Lys	225	230	235	240
Ala	Gly	Lys	Ala	Thr	Lys	Val	Gly	Lys	Asp	Glu	Leu	Phe	Ala	Leu	Glu	245	250	255	
Gln	Ser	Cys	Ala	Gln	Val	Val	Leu	Gln	Ala	Ala	Asn	Glu	Arg	Asn	Val	260	265	270	
Ser	Thr	Arg	Gln	Gly	Met	Asp	Leu	Ser	Ala	Asn	Gln	Asp	Glu	Glu	Thr	275	280	285	
Asp	Gln	Glu	Thr	Phe	Gln	Leu	Glu	Ile	Asp	Arg	Asp	Thr	Lys	Lys	Cys	290	295	300	
Ala	Phe	Arg	Thr	His	Thr	Gly	Lys	Tyr	Trp	Thr	Leu	Thr	Ala	Thr	Gly	305	310	315	320
Gly	Val	Gln	Ser	Thr	Ala	Ser	Ser	Lys	Asn	Ala	Ser	Cys	Tyr	Phe	Asp	325	330	335	
Ile	Glu	Trp	Arg	Asp	Arg	Arg	Ile	Thr	Leu	Arg	Ala	Ser	Asn	Gly	Lys	340	345	350	
Phe	Val	Thr	Ser	Lys	Lys	Asn	Gly	Gln	Leu	Ala	Ala	Ser	Val	Glu	Thr	355	360	365	
Ala	Gly	Asp	Ser	Glu	Leu	Phe	Leu	Met	Lys	Leu	Ile	Asn	Arg	Pro	Ile	370	375	380	
Ile	Val	Phe	Arg	Gly	Glu	His	Gly	Phe	Ile	Gly	Cys	Arg	Lys	Val	Thr	385	390	395	400
Gly	Thr	Leu	Asp	Ala	Asn	Arg	Ser	Ser	Tyr	Asp	Val	Phe	Gln	Leu	Glu	405	410	415	
Phe	Asn	Asp	Gly	Ala	Tyr	Asn	Ile	Lys	Asp	Ser	Thr	Gly	Lys	Tyr	Trp	420	425	430	
Thr	Val	Gly	Ser	Asp	Ser	Ala	Val	Thr	Ser	Ser	Gly	Asp	Thr	Pro	Val	435	440	445	
Asp	Phe	Phe	Phe	Glu	Phe	Cys	Asp	Tyr	Asn	Lys	Val	Ala	Ile	Lys	Val	450	455	460	
Gly	Gly	Arg	Tyr	Leu	Lys	Gly	Asp	His	Ala	Gly	Val	Leu	Lys	Ala	Ser	465	470	475	480
Ala	Glu	Thr	Val	Asp	Pro	Ala	Ser	Leu	Trp	Glu	Tyr					485	490		

<210> 59
 <211> 317
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Apo-E precursor; Accession NO:
 as of 29 August 2003: P02649

<400> 59
 Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125
 Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240

Ser	Arg	Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu
				245					250					255	
Val	Arg	Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala
			260					265					270		
Glu	Ala	Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu
		275					280					285			
Asp	Met	Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala
	290					295					300				
Val	Gly	Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	Asn	His			
305					310					315					

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<210> 60
<211> 838
<212> PRT
<213> Homo sapiens
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<220>
<223> hypothetical 88.6 kDa protein; Accession NO:
as of 29 August 2003: Q96C61

<400> 60															
Met	Pro	Ser	Gly	Lys	Val	Ala	Gln	Pro	Thr	Ile	Thr	Asp	Asn	Lys	Asp
1				5					10					15	
Gly	Thr	Val	Thr	Val	Arg	Tyr	Ala	Pro	Ser	Glu	Ala	Gly	Leu	His	Glu
			20					25					30		
Met	Asp	Ile	Arg	Tyr	Asp	Asn	Met	His	Ile	Pro	Gly	Ser	Pro	Leu	Gln
		35					40					45			
Phe	Tyr	Val	Asp	Tyr	Val	Asn	Cys	Gly	His	Val	Thr	Ala	Tyr	Gly	Pro
	50					55					60				
Gly	Leu	Thr	His	Gly	Val	Val	Asn	Lys	Pro	Ala	Thr	Phe	Thr	Val	Asn
65					70					75					80
Thr	Lys	Asp	Ala	Gly	Glu	Gly	Gly	Leu	Ser	Leu	Ala	Ile	Glu	Gly	Pro
				85					90					95	
Ser	Lys	Ala	Glu	Ile	Ser	Cys	Thr	Asp	Asn	Gln	Asp	Gly	Thr	Cys	Ser
			100					105					110		
Val	Ser	Tyr	Leu	Pro	Val	Leu	Pro	Gly	Asp	Tyr	Ser	Ile	Leu	Val	Lys
		115					120					125			
Tyr	Asn	Glu	Gln	His	Val	Pro	Gly	Ser	Pro	Phe	Thr	Ala	Arg	Val	Thr
	130					135					140				

Gly	Asp	Asp	Ser	Met	Arg	Met	Ser	His	Leu	Lys	Val	Gly	Ser	Ala	Ala	
145					150					155					160	
Asp	Ile	Pro	Ile	Asn	Ile	Ser	Glu	Thr	Asp	Leu	Ser	Leu	Leu	Thr	Ala	
				165					170					175		
Thr	Val	Val	Pro	Pro	Ser	Gly	Arg	Glu	Glu	Pro	Cys	Leu	Leu	Lys	Arg	
			180					185					190			
Leu	Arg	Asn	Gly	His	Val	Gly	Ile	Ser	Phe	Val	Pro	Lys	Glu	Thr	Gly	
		195					200					205				
Glu	His	Leu	Val	His	Val	Lys	Lys	Asn	Gly	Gln	His	Val	Ala	Ser	Ser	
	210					215					220					
Pro	Ile	Pro	Val	Val	Ile	Ser	Gln	Ser	Glu	Ile	Gly	Asp	Ala	Ser	Arg	
225					230					235					240	
Val	Arg	Val	Ser	Gly	Gln	Gly	Leu	His	Glu	Gly	His	Thr	Phe	Glu	Pro	
				245					250					255		
Ala	Glu	Phe	Ile	Ile	Asp	Thr	Arg	Asp	Ala	Gly	Tyr	Gly	Gly	Leu	Ser	
			260					265					270			
Leu	Ser	Ile	Glu	Gly	Pro	Ser	Lys	Val	Asp	Ile	Asn	Thr	Glu	Asp	Leu	
		275					280					285				
Glu	Asp	Gly	Thr	Cys	Arg	Val	Thr	Tyr	Cys	Pro	Thr	Glu	Pro	Gly	Asn	
	290					295					300					
Tyr	Ile	Ile	Asn	Ile	Lys	Phe	Ala	Asp	Gln	His	Val	Pro	Gly	Ser	Pro	
305					310					315					320	
Phe	Ser	Val	Lys	Val	Thr	Gly	Glu	Gly	Arg	Val	Lys	Glu	Ser	Ile	Thr	
				325					330					335		
Arg	Arg	Arg	Arg	Ala	Pro	Ser	Val	Ala	Asn	Val	Gly	Ser	His	Cys	Asp	
				340				345					350			
Leu	Ser	Leu	Lys	Ile	Pro	Glu	Ile	Ser	Ile	Gln	Asp	Met	Thr	Ala	Gln	
		355					360					365				
Val	Thr	Ser	Pro	Ser	Gly	Lys	Thr	His	Glu	Ala	Glu	Ile	Val	Glu	Gly	
	370					375					380					
Glu	Asn	His	Thr	Tyr	Cys	Ile	Arg	Phe	Val	Pro	Ala	Glu	Met	Gly	Thr	
385					390					395					400	
His	Thr	Val	Ser	Val	Lys	Tyr	Lys	Gly	Gln	His	Val	Pro	Gly	Ser	Pro	
				405					410					415		
Phe	Gln	Phe	Thr	Val	Gly	Pro	Leu	Gly	Glu	Gly	Gly	Ala	His	Lys	Val	
			420					425					430			

Arg Ala Gly Gly Pro Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala
 435 440 445
 Glu Phe Ser Ile Trp Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile
 450 455 460
 Ala Val Glu Gly Pro Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys
 465 470 475 480
 Asp Gly Ser Cys Gly Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr
 485 490 495
 Glu Val Ser Val Lys Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe
 500 505 510
 Val Val Pro Val Ala Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val
 515 520 525
 Ser Ser Leu Gln Glu Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe
 530 535 540
 Ala Val Ser Leu Asn Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His
 545 550 555 560
 Ser Pro Ser Gly Ala Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln
 565 570 575
 Asp Lys Tyr Ala Val Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu
 580 585 590
 Ile Asp Val Lys Phe Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys
 595 600 605
 Ile Arg Val Gly Glu Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser
 610 615 620
 Ala Tyr Gly Ala Gly Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu
 625 630 635 640
 Phe Val Val Asn Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr
 645 650 655
 Ile Asp Gly Pro Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu
 660 665 670
 Gly Tyr Arg Val Thr Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile
 675 680 685
 Ser Ile Lys Tyr Gly Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys
 690 695 700
 Ala Lys Val Thr Gly Pro Arg Leu Val Ser Asn His Ser Leu His Glu
 705 710 715 720

Thr Ser Ser Val Phe Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro
 725 730 735
 Gln His Gly Ala Pro Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val
 740 745 750
 Ala Lys Gly Leu Gly Leu Ser Lys Ala Tyr Val Gly Gln Lys Ser Ser
 755 760 765
 Phe Thr Val Asp Cys Ser Lys Ala Gly Asn Asn Met Leu Leu Val Gly
 770 775 780
 Val His Gly Pro Arg Thr Pro Cys Glu Glu Ile Leu Val Lys His Val
 785 790 795 800
 Gly Ser Arg Leu Tyr Ser Val Ser Tyr Leu Leu Lys Asp Lys Gly Glu
 805 810 815
 Tyr Thr Leu Val Val Lys Trp Gly Asp Glu His Ile Pro Gly Ser Pro
 820 825 830
 Tyr Arg Val Val Val Pro
 835

<210> 61
 <211> 433
 <212> PRT
 <213> Homo sapiens

<220>
 <223> human alpha enolase; Accession NO:
 as of 29 August 2003: P06733

<400> 61
 Ser Ile Leu Lys Ile His Ala Arg Glu Ile Phe Asp Ser Arg Gly Asn
 1 5 10 15
 Pro Thr Val Glu Val Asp Leu Phe Thr Ser Lys Gly Leu Phe Arg Ala
 20 25 30
 Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu Ala Leu Glu Leu
 35 40 45
 Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Lys Gly Val Ser Lys Ala
 50 55 60
 Val Glu His Ile Asn Lys Thr Ile Ala Pro Ala Leu Val Ser Lys Lys
 65 70 75 80
 Leu Asn Val Thr Glu Gln Glu Lys Ile Asp Lys Leu Met Ile Glu Met
 85 90 95

Asp	Gly	Thr	Glu	Asn	Lys	Ser	Lys	Phe	Gly	Ala	Asn	Ala	Ile	Leu	Gly	
			100					105					110			
Val	Ser	Leu	Ala	Val	Cys	Lys	Ala	Gly	Ala	Val	Glu	Lys	Gly	Val	Pro	
		115					120					125				
Leu	Tyr	Arg	His	Ile	Ala	Asp	Leu	Ala	Gly	Asn	Ser	Glu	Val	Ile	Leu	
	130					135					140					
Pro	Val	Pro	Ala	Phe	Asn	Val	Ile	Asn	Gly	Gly	Ser	His	Ala	Gly	Asn	
145					150					155					160	
Lys	Leu	Ala	Met	Gln	Glu	Phe	Met	Ile	Leu	Pro	Val	Gly	Ala	Ala	Asn	
				165					170					175		
Phe	Arg	Glu	Ala	Met	Arg	Ile	Gly	Ala	Glu	Val	Tyr	His	Asn	Leu	Lys	
			180					185					190			
Asn	Val	Ile	Lys	Glu	Lys	Tyr	Gly	Lys	Asp	Ala	Thr	Asn	Val	Gly	Asp	
	195						200					205				
Glu	Gly	Gly	Phe	Ala	Pro	Asn	Ile	Leu	Glu	Asn	Lys	Glu	Gly	Leu	Glu	
	210					215					220					
Leu	Leu	Lys	Thr	Ala	Ile	Gly	Lys	Ala	Gly	Tyr	Thr	Asp	Lys	Val	Val	
225					230					235					240	
Ile	Gly	Met	Asp	Val	Ala	Ala	Ser	Glu	Phe	Phe	Arg	Ser	Gly	Lys	Tyr	
				245					250					255		
Asp	Leu	Asp	Phe	Lys	Ser	Pro	Asp	Asp	Pro	Ser	Arg	Tyr	Ile	Ser	Pro	
			260					265					270			
Asp	Gln	Leu	Ala	Asp	Leu	Tyr	Lys	Ser	Phe	Ile	Lys	Asp	Tyr	Pro	Val	
		275					280					285				
Val	Ser	Ile	Glu	Asp	Pro	Phe	Asp	Gln	Asp	Asp	Trp	Gly	Ala	Trp	Gln	
	290					295					300					
Lys	Phe	Thr	Ala	Ser	Ala	Gly	Ile	Gln	Val	Val	Gly	Asp	Asp	Leu	Thr	
305					310					315					320	
Val	Thr	Asn	Pro	Lys	Arg	Ile	Ala	Lys	Ala	Val	Asn	Glu	Lys	Ser	Cys	
				325					330					335		
Asn	Cys	Leu	Leu	Leu	Lys	Val	Asn	Gln	Ile	Gly	Ser	Val	Thr	Glu	Ser	
			340					345					350			
Leu	Gln	Ala	Cys	Lys	Leu	Ala	Gln	Ala	Asn	Gly	Trp	Gly	Val	Met	Val	
		355					360					365				
Ser	His	Arg	Ser	Gly	Glu	Thr	Glu	Asp	Thr	Phe	Ile	Ala	Asp	Leu	Val	
	370					375					380					

Val Gly Leu Cys Thr Gly Gln Ile Lys Thr Gly Ala Pro Cys Arg Ser
385 390 395 400

Glu Arg Leu Ala Lys Tyr Asn Gln Leu Leu Arg Ile Glu Glu Glu Leu
405 410 415

Gly Ser Lys Ala Lys Phe Ala Gly Arg Asn Phe Arg Asn Pro Leu Ala
420 425 430

Lys

<210> 62

<211> 471

<212> PRT

<213> Homo sapiens

<220>

<223> Tryptophanyl-tRNA synthetase;

Accession NO: as of 29 August 2003: P23381

<400> 62

Met Pro Asn Ser Glu Pro Ala Ser Leu Leu Glu Leu Phe Asn Ser Ile
1 5 10 15

Ala Thr Gln Gly Glu Leu Val Arg Ser Leu Lys Ala Gly Asn Ala Ser
20 25 30

Lys Asp Glu Ile Asp Ser Ala Val Lys Met Leu Val Ser Leu Lys Met
35 40 45

Ser Tyr Lys Ala Ala Ala Gly Glu Asp Tyr Lys Ala Asp Cys Pro Pro
50 55 60

Gly Asn Pro Ala Pro Thr Ser Asn His Gly Pro Asp Ala Thr Glu Ala
65 70 75 80

Glu Glu Asp Phe Val Asp Pro Trp Thr Val Gln Thr Ser Ser Ala Lys
85 90 95

Gly Ile Asp Tyr Asp Lys Leu Ile Val Arg Phe Gly Ser Ser Lys Ile
100 105 110

Asp Lys Glu Leu Ile Asn Arg Ile Glu Arg Ala Thr Gly Gln Arg Pro
115 120 125

His His Phe Leu Arg Arg Gly Ile Phe Phe Ser His Arg Asp Met Asn
130 135 140

Gln Val Leu Asp Ala Tyr Glu Asn Lys Lys Pro Phe Tyr Leu Tyr Thr
145 150 155 160

Gly Arg Gly Pro Ser Ser Glu Ala Met His Val Gly His Leu Ile Pro
 165 170 175
 Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn Val Pro Leu Val
 180 185 190
 Ile Gln Met Thr Asp Asp Glu Lys Tyr Leu Trp Lys Asp Leu Thr Leu
 195 200 205
 Asp Gln Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys Asp Ile Ile Ala
 210 215 220
 Cys Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser Asp Leu Asp Tyr
 225 230 235 240
 Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val Lys Ile Gln Lys
 245 250 255
 His Val Thr Phe Asn Gln Val Lys Gly Ile Phe Gly Phe Thr Asp Ser
 260 265 270
 Asp Cys Ile Gly Lys Ile Ser Phe Pro Ala Ile Gln Ala Ala Pro Ser
 275 280 285
 Phe Ser Asn Ser Phe Pro Gln Ile Phe Arg Asp Arg Thr Asp Ile Gln
 290 295 300
 Cys Leu Ile Pro Cys Ala Ile Asp Gln Asp Pro Tyr Phe Arg Met Thr
 305 310 315 320
 Arg Asp Val Ala Pro Arg Ile Gly Tyr Pro Lys Pro Ala Leu Leu His
 325 330 335
 Ser Thr Phe Phe Pro Ala Leu Gln Gly Ala Gln Thr Lys Met Ser Ala
 340 345 350
 Ser Asp Pro Asn Ser Ser Ile Phe Leu Thr Asp Thr Ala Lys Gln Ile
 355 360 365
 Lys Thr Lys Val Asn Lys His Ala Phe Ser Gly Gly Arg Asp Thr Ile
 370 375 380
 Glu Glu His Arg Gln Phe Gly Gly Asn Cys Asp Val Asp Val Ser Phe
 385 390 395 400
 Met Tyr Leu Thr Phe Phe Leu Glu Asp Asp Asp Lys Leu Glu Gln Ile
 405 410 415
 Arg Lys Asp Tyr Thr Ser Gly Ala Met Leu Thr Gly Glu Leu Lys Lys
 420 425 430
 Ala Leu Ile Glu Val Leu Gln Pro Leu Ile Ala Glu His Gln Ala Arg
 435 440 445

Arg Lys Glu Val Thr Asp Glu Ile Val Lys Glu Phe Met Thr Pro Arg
 450 455 460

Lys Leu Ser Phe Asp Phe Gln
 465 470

<210> 63
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Ig kappa chain C regionI;
 Accession NO: as of 29 August 2003: P01834

<400> 63
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 1 5 10 15
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 20 25 30
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 35 40 45
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 50 55 60
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 65 70 75 80
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 85 90 95
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 64
 <211> 758
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Mitofilin; Accession NO: as of 29 August 2003: Q16891

<400> 64
 Met Leu Arg Ala Cys Gln Leu Ser Gly Val Thr Ala Ala Ala Gln Ser
 1 5 10 15

Cys Leu Cys Gly Lys Phe Val Leu Arg Pro Leu Arg Pro Cys Arg Arg
 20 25 30
 Tyr Ser Thr Ser Gly Ser Ser Gly Leu Thr Thr Gly Lys Ile Ala Gly
 35 40 45
 Ala Gly Leu Leu Phe Val Gly Gly Gly Ile Gly Gly Thr Ile Leu Tyr
 50 55 60
 Ala Lys Trp Asp Ser His Phe Arg Glu Ser Val Glu Lys Thr Ile Pro
 65 70 75 80
 Tyr Ser Asp Lys Leu Phe Glu Met Val Leu Gly Pro Ala Ala Tyr Asn
 85 90 95
 Val Pro Leu Pro Lys Lys Ser Ile Gln Ser Gly Pro Leu Lys Ile Ser
 100 105 110
 Ser Val Ser Glu Val Met Lys Glu Ser Lys Gln Pro Ala Ser Gln Leu
 115 120 125
 Gln Lys Gln Lys Gly Asp Thr Pro Ala Ser Ala Thr Ala Pro Thr Glu
 130 135 140
 Ala Ala Gln Ile Ile Ser Ala Ala Gly Asp Thr Leu Ser Val Pro Ala
 145 150 155 160
 Pro Ala Val Gln Pro Glu Glu Ser Leu Lys Thr Asp His Pro Glu Ile
 165 170 175
 Gly Glu Gly Lys Pro Thr Pro Ala Leu Ser Glu Glu Ala Ser Ser Ser
 180 185 190
 Ser Ile Arg Glu Arg Pro Pro Glu Glu Val Ala Ala Arg Leu Ala Gln
 195 200 205
 Gln Glu Lys Gln Glu Gln Val Lys Ile Glu Ser Leu Ala Lys Ser Leu
 210 215 220
 Glu Asp Ala Leu Arg Gln Thr Ala Ser Val Thr Leu Gln Ala Ile Ala
 225 230 235 240
 Ala Gln Asn Ala Ala Val Gln Ala Val Asn Ala His Ser Asn Ile Leu
 245 250 255
 Lys Ala Ala Met Asp Asn Ser Glu Ile Ala Gly Glu Lys Lys Ser Ala
 260 265 270
 Gln Trp Arg Thr Val Glu Gly Ala Leu Lys Glu Arg Arg Lys Ala Val
 275 280 285
 Asp Glu Ala Ala Asp Ala Leu Leu Lys Ala Lys Glu Glu Leu Glu Lys
 290 295 300

Met	Lys	Ser	Val	Ile	Glu	Asn	Ala	Lys	Lys	Lys	Glu	Val	Ala	Gly	Ala	
305					310					315					320	
Lys	Pro	His	Ile	Thr	Ala	Ala	Glu	Gly	Lys	Leu	His	Asn	Met	Ile	Val	
			325						330					335		
Asp	Leu	Asp	Asn	Val	Val	Lys	Lys	Val	Gln	Ala	Ala	Gln	Ser	Glu	Ala	
			340					345					350			
Lys	Val	Val	Ser	Gln	Tyr	His	Glu	Leu	Val	Val	Gln	Ala	Arg	Asp	Asp	
		355					360					365				
Phe	Lys	Arg	Glu	Leu	Asp	Ser	Ile	Thr	Pro	Glu	Val	Leu	Pro	Gly	Trp	
	370					375					380					
Lys	Gly	Met	Ser	Val	Ser	Asp	Leu	Ala	Asp	Lys	Leu	Ser	Thr	Asp	Asp	
385					390					395					400	
Leu	Asn	Ser	Leu	Ile	Ala	His	Ala	His	Arg	Arg	Ile	Asp	Gln	Leu	Asn	
			405						410					415		
Arg	Glu	Leu	Ala	Glu	Gln	Lys	Ala	Thr	Glu	Lys	Gln	His	Ile	Thr	Leu	
			420					425					430			
Ala	Leu	Glu	Lys	Gln	Lys	Leu	Glu	Glu	Lys	Arg	Ala	Phe	Asp	Ser	Ala	
		435					440					445				
Val	Ala	Lys	Ala	Leu	Glu	His	His	Arg	Ser	Glu	Ile	Gln	Ala	Glu	Gln	
	450					455					460					
Asp	Arg	Lys	Ile	Glu	Glu	Val	Arg	Asp	Ala	Met	Glu	Asn	Glu	Met	Arg	
465					470					475					480	
Thr	Gln	Leu	Arg	Arg	Gln	Ala	Ala	Ala	His	Thr	Asp	His	Leu	Arg	Asp	
			485						490					495		
Val	Leu	Arg	Val	Gln	Glu	Gln	Glu	Leu	Lys	Ser	Glu	Phe	Glu	Gln	Asn	
			500					505					510			
Leu	Ser	Glu	Lys	Leu	Ser	Glu	Gln	Glu	Leu	Gln	Phe	Arg	Arg	Leu	Ser	
		515					520					525				
Gln	Glu	Gln	Val	Asp	Asn	Phe	Thr	Leu	Asp	Ile	Asn	Thr	Ala	Tyr	Ala	
	530					535					540					
Arg	Leu	Arg	Gly	Ile	Glu	Gln	Ala	Val	Gln	Ser	His	Ala	Val	Ala	Glu	
545					550					555					560	
Glu	Glu	Ala	Arg	Lys	Ala	His	Gln	Leu	Trp	Leu	Ser	Val	Glu	Ala	Leu	
			565						570					575		
Lys	Tyr	Ser	Met	Lys	Thr	Ser	Ser	Ala	Glu	Thr	Pro	Thr	Ile	Pro	Leu	
			580					585					590			

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<220>
<223> Ribosome-binding protein 1;
      Accession NO: as of 29 August 2003: 075300
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<400> 65
Met Asp Ile Tyr Asp Thr Gln Thr Leu Gly Val Val Val Phe Gly Gly
1          5          10          15
Phe Met Val Val Ser Ala Ile Gly Ile Phe Leu Val Ser Thr Phe Ser
          20          25          30
Met Lys Glu Thr Ser Tyr Glu Glu Ala Leu Ala Asn Gln Arg Lys Glu
          35          40          45

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Met	Ala	Lys	Thr	His	His	Gln	Lys	Val	Glu	Lys	Lys	Lys	Lys	Glu	Lys	50	55	60
Thr	Val	Glu	Lys	Lys	Gly	Lys	Thr	Lys	Lys	Lys	Glu	Glu	Lys	Pro	Asn	65	70	75
Gly	Lys	Ile	Pro	Asp	His	Asp	Pro	Ala	Pro	Asn	Val	Thr	Val	Leu	Leu	85	90	95
Arg	Glu	Pro	Val	Arg	Ala	Pro	Ala	Val	Ala	Val	Ala	Pro	Thr	Pro	Val	100	105	110
Gln	Pro	Pro	Ile	Ile	Val	Ala	Pro	Val	Ala	Thr	Val	Pro	Ala	Met	Pro	115	120	125
Gln	Glu	Lys	Leu	Ala	Ser	Ser	Pro	Lys	Asp	Lys	Lys	Lys	Lys	Glu	Lys	130	135	140
Lys	Val	Ala	Lys	Val	Glu	Pro	Ala	Val	Ser	Ser	Val	Val	Asn	Ser	Ile	145	150	155
Gln	Val	Leu	Thr	Ser	Lys	Ala	Ala	Ile	Leu	Glu	Thr	Ala	Pro	Lys	Glu	165	170	175
Val	Pro	Met	Val	Val	Val	Pro	Pro	Val	Gly	Ala	Lys	Gly	Asn	Thr	Pro	180	185	190
Ala	Thr	Gly	Thr	Thr	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Thr	Gln	Asn	Gln	195	200	205
Ser	Lys	Lys	Ala	Glu	Gly	Ala	Pro	Asn	Gln	Gly	Arg	Lys	Ala	Glu	Gly	210	215	220
Thr	Pro	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Gly	Thr	Pro	Asn	Gln	Gly	Lys	225	230	235
Lys	Ala	Glu	Gly	Thr	Pro	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Thr	Pro	245	250	255
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val	260	265	270
Asp	Thr	Thr	Pro	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Pro	Thr	Gln	275	280	285
Gly	Arg	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Ala	Lys	Lys	Val	Glu	Gly	290	295	300
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	305	310	315
Lys	Gly	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	325	330	335

Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala		
			340					345					350				
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln		
		355					360					365					
Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ser	Glu	Gly		
	370					375					380						
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys		
385					390					395						400	
Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln		
				405					410						415		
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala		
			420					425					430				
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln		
		435					440					445					
Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly		
	450					455					460						
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys		
465					470					475						480	
Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln		
				485					490						495		
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Gln	Lys	Gly		
			500					505					510				
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Gly	Ala	Gln	Gly	Lys		
		515					520					525					
Lys	Ala	Glu	Arg	Ser	Pro	Asn	Gln	Gly	Lys	Lys	Gly	Glu	Gly	Ala	Pro		
	530					535					540						
Ile	Gln	Gly	Lys	Lys	Ala	Asp	Ser	Val	Ala	Asn	Gln	Gly	Thr	Lys	Val		
545					550					555					560		
Glu	Gly	Ile	Thr	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ser	Pro	Ser	Glu		
				565					570					575			
Gly	Lys	Lys	Ala	Glu	Gly	Ser	Pro	Asn	Gln	Gly	Lys	Lys	Ala	Asp	Ala		
			580					585					590				
Ala	Ala	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Ser	Ala	Ser	Val	Gln	Gly	Arg		
		595					600					605					
Asn	Thr	Asp	Val	Ala	Gln	Ser	Pro	Glu	Ala	Pro	Lys	Gln	Glu	Ala	Pro		
	610					615					620						

Ala	Lys	Lys	Lys	Ser	Gly	Ser	Lys	Lys	Lys	Gly	Glu	Pro	Gly	Pro	Pro	625	630	635	640
Asp	Ala	Asp	Gly	Pro	Leu	Tyr	Leu	Pro	Tyr	Lys	Thr	Leu	Val	Ser	Thr	645	650	655	
Val	Gly	Ser	Met	Val	Phe	Asn	Glu	Gly	Glu	Ala	Gln	Arg	Leu	Ile	Glu	660	665	670	
Ile	Leu	Ser	Glu	Lys	Ala	Gly	Ile	Ile	Gln	Asp	Thr	Trp	His	Lys	Ala	675	680	685	
Thr	Gln	Lys	Gly	Asp	Pro	Val	Ala	Ile	Leu	Lys	Arg	Gln	Leu	Glu	Glu	690	695	700	
Lys	Glu	Lys	Leu	Leu	Ala	Thr	Glu	Gln	Glu	Asp	Ala	Ala	Val	Ala	Lys	705	710	715	720
Ser	Lys	Leu	Arg	Glu	Leu	Asn	Lys	Glu	Met	Ala	Ala	Glu	Lys	Ala	Lys	725	730	735	
Ala	Ala	Ala	Gly	Glu	Ala	Lys	Val	Lys	Lys	Gln	Leu	Val	Ala	Arg	Glu	740	745	750	
Gln	Glu	Ile	Thr	Ala	Val	Gln	Ala	Arg	Met	Gln	Ala	Ser	Tyr	Arg	Glu	755	760	765	
His	Val	Lys	Glu	Val	Gln	Gln	Leu	Gln	Gly	Lys	Ile	Arg	Thr	Leu	Gln	770	775	780	
Glu	Gln	Leu	Glu	Asn	Gly	Pro	Asn	Thr	Gln	Leu	Ala	Arg	Leu	Gln	Gln	785	790	795	800
Glu	Asn	Ser	Ile	Leu	Arg	Asp	Ala	Leu	Asn	Gln	Ala	Thr	Ser	Gln	Val	805	810	815	
Glu	Ser	Lys	Gln	Asn	Ala	Glu	Leu	Ala	Lys	Leu	Arg	Gln	Glu	Leu	Ser	820	825	830	
Lys	Val	Ser	Lys	Glu	Leu	Val	Glu	Lys	Ser	Glu	Ala	Val	Arg	Gln	Asp	835	840	845	
Glu	Gln	Gln	Arg	Lys	Ala	Leu	Glu	Ala	Lys	Ala	Ala	Ala	Phe	Glu	Lys	850	855	860	
Gln	Val	Leu	Gln	Leu	Gln	Ala	Ser	His	Arg	Glu	Ser	Glu	Glu	Ala	Leu	865	870	875	880
Gln	Lys	Arg	Leu	Asp	Glu	Val	Ser	Arg	Glu	Leu	Cys	His	Thr	Gln	Ser	885	890	895	
Ser	His	Ala	Ser	Leu	Arg	Ala	Asp	Ala	Glu	Lys	Ala	Gln	Glu	Gln	Gln	900	905	910	

Gln Gln Met Ala Glu Leu His Ser Lys Leu Gln Ser Ser Glu Ala Glu
 915 920 925
 Val Arg Ser Lys Cys Glu Glu Leu Ser Gly Leu His Gly Gln Leu Gln
 930 935 940
 Glu Ala Arg Ala Glu Asn Ser Gln Leu Thr Glu Arg Ile Arg Ser Ile
 945 950 955 960
 Glu Ala Leu Leu Glu Ala Gly Gln Ala Arg Asp Ala Gln Asp Val Gln
 965 970 975
 Ala Ser Gln Ala Glu Ala Asp Gln Gln Gln Thr Arg Leu Lys Glu Leu
 980 985 990
 Glu Ser Gln Val Ser Gly Leu Glu Lys Glu Ala Ile Glu Leu Arg Glu
 995 1000 1005
 Ala Val Glu Gln Gln Lys Val Lys Asn Asn Asp Leu Arg Glu Lys
 1010 1015 1020
 Asn Trp Lys Ala Met Glu Ala Leu Ala Thr Ala Glu Gln Ala Cys
 1025 1030 1035
 Lys Glu Lys Leu Leu Ser Leu Thr Gln Ala Lys Glu Glu Ser Glu
 1040 1045 1050
 Lys Gln Leu Cys Leu Ile Glu Ala Gln Thr Met Glu Ala Leu Leu
 1055 1060 1065
 Ala Leu Leu Pro Glu Leu Ser Val Leu Ala Gln Gln Asn Tyr Thr
 1070 1075 1080
 Glu Trp Leu Gln Asp Leu Lys Glu Lys Gly Pro Thr Leu Leu Lys
 1085 1090 1095
 His Pro Pro Ala Pro Ala Glu Pro Ser Ser Asp Leu Ala Ser Lys
 1100 1105 1110
 Leu Arg Glu Ala Glu Glu Thr Gln Ser Thr Leu Gln Ala Glu Cys
 1115 1120 1125
 Asp Gln Tyr Arg Ser Ile Leu Ala Glu Thr Glu Gly Met Leu Arg
 1130 1135 1140
 Asp Leu Gln Lys Ser Val Glu Glu Glu Glu Gln Val Trp Arg Ala
 1145 1150 1155
 Lys Val Gly Ala Ala Glu Glu Glu Leu Gln Lys Ser Arg Val Thr
 1160 1165 1170
 Val Lys His Leu Glu Glu Ile Val Glu Lys Leu Lys Gly Glu Leu
 1175 1180 1185

Glu	Ser	Ser	Asp	Gln	Val	Arg	Glu	His	Thr	Ser	His	Leu	Glu	Ala
1190						1195					1200			
Glu	Leu	Glu	Lys	His	Met	Ala	Ala	Ala	Ser	Ala	Glu	Cys	Gln	Asn
1205						1210					1215			
Tyr	Ala	Lys	Glu	Val	Ala	Gly	Leu	Arg	Gln	Leu	Leu	Leu	Glu	Ser
1220						1225					1230			
Gln	Ser	Gln	Leu	Asp	Ala	Ala	Lys	Ser	Glu	Ala	Gln	Lys	Gln	Ser
1235						1240					1245			
Asp	Glu	Leu	Ala	Leu	Val	Arg	Gln	Gln	Leu	Ser	Glu	Met	Lys	Ser
1250						1255					1260			
His	Val	Glu	Asp	Gly	Asp	Ile	Ala	Gly	Ala	Pro	Ala	Ser	Ser	Pro
1265						1270					1275			
Glu	Ala	Pro	Pro	Ala	Glu	Gln	Asp	Pro	Val	Gln	Leu	Lys	Thr	Gln
1280						1285					1290			
Leu	Glu	Trp	Thr	Glu	Ala	Ile	Leu	Glu	Asp	Glu	Gln	Thr	Gln	Arg
1295						1300					1305			
Gln	Lys	Leu	Thr	Ala	Glu	Phe	Glu	Glu	Ala	Gln	Thr	Ser	Ala	Cys
1310						1315					1320			
Arg	Leu	Gln	Glu	Glu	Leu	Glu	Lys	Leu	Arg	Thr	Ala	Gly	Pro	Leu
1325						1330					1335			
Glu	Ser	Ser	Glu	Thr	Glu	Glu	Ala	Ser	Gln	Leu	Lys	Glu	Arg	Leu
1340						1345					1350			
Glu	Lys	Glu	Lys	Lys	Leu	Thr	Ser	Asp	Leu	Gly	Arg	Ala	Ala	Thr
1355						1360					1365			
Arg	Leu	Gln	Glu	Leu	Leu	Lys	Thr	Thr	Gln	Glu	Gln	Leu	Ala	Arg
1370						1375					1380			
Glu	Lys	Asp	Thr	Val	Lys	Lys	Leu	Gln	Glu	Gln	Leu	Glu	Lys	Ala
1385						1390					1395			
Glu	Asp	Gly	Ser	Ser	Ser	Lys	Glu	Gly	Thr	Ser	Val			
1400						1405					1410			

<210> 66

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<223> Fibrinogen gamma chain precursor;

Accession NO: as of 29 August 2003: P02679

<400> 66

Met Ser Trp Ser Leu His Pro Arg Asn Leu Ile Leu Tyr Phe Tyr Ala
 1 5 10 15
 Leu Leu Phe Leu Ser Ser Thr Cys Val Ala Tyr Val Ala Thr Arg Asp
 20 25 30
 Asn Cys Cys Ile Leu Asp Glu Arg Phe Gly Ser Tyr Cys Pro Thr Thr
 35 40 45
 Cys Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys
 50 55 60
 Asp Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr
 65 70 75 80
 Ser Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro
 85 90 95
 Asp Glu Ser Ser Lys Pro Asn Met Ile Asp Ala Ala Thr Leu Lys Ser
 100 105 110
 Arg Lys Met Leu Glu Glu Ile Met Lys Tyr Glu Ala Ser Ile Leu Thr
 115 120 125
 His Asp Ser Ser Ile Arg Tyr Leu Gln Glu Ile Tyr Asn Ser Asn Asn
 130 135 140
 Gln Lys Ile Val Asn Leu Lys Glu Lys Val Ala Gln Leu Glu Ala Gln
 145 150 155 160
 Cys Gln Glu Pro Cys Lys Asp Thr Val Gln Ile His Asp Ile Thr Gly
 165 170 175
 Lys Asp Cys Gln Asp Ile Ala Asn Lys Gly Ala Lys Gln Ser Gly Leu
 180 185 190
 Tyr Phe Ile Lys Pro Leu Lys Ala Asn Gln Gln Phe Leu Val Tyr Cys
 195 200 205
 Glu Ile Asp Gly Ser Gly Asn Gly Trp Thr Val Phe Gln Lys Arg Leu
 210 215 220
 Asp Gly Ser Val Asp Phe Lys Lys Asn Trp Ile Gln Tyr Lys Glu Gly
 225 230 235 240
 Phe Gly His Leu Ser Pro Thr Gly Thr Thr Glu Phe Trp Leu Gly Asn
 245 250 255
 Glu Lys Ile His Leu Ile Ser Thr Gln Ser Ala Ile Pro Tyr Ala Leu
 260 265 270

Arg Val Glu Leu Glu Asp Trp Asn Gly Arg Thr Ser Thr Ala Asp Tyr
 275 280 285
 Ala Met Phe Lys Val Gly Pro Glu Ala Asp Lys Tyr Arg Leu Thr Tyr
 290 295 300
 Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp Ala Phe Asp Gly Phe Asp
 305 310 315 320
 Phe Gly Asp Asp Pro Ser Asp Lys Phe Phe Thr Ser His Asn Gly Met
 325 330 335
 Gln Phe Ser Thr Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys
 340 345 350
 Ala Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His Ala Gly
 355 360 365
 His Leu Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser
 370 375 380
 Thr Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr
 385 390 395 400
 Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn
 405 410 415
 Arg Leu Thr Ile Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys
 420 425 430
 Gln Val Arg Pro Glu His Pro Ala Glu Thr Glu Tyr Asp Ser Leu Tyr
 435 440 445
 Pro Glu Asp Asp Leu
 450

<210> 67

<211> 622

<212> PRT

<213> Homo sapiens

<220>

<223> Prothrombin Precursor;

Accession NO: as of 29 August 2003: P00734

<400> 67

Met Ala His Val Arg Gly Leu Gln Leu Pro Gly Cys Leu Ala Leu Ala
 1 5 10 15

Ala Leu Cys Ser Leu Val His Ser Gln His Val Phe Leu Ala Pro Gln
 20 25 30

Gln	Ala	Arg	Ser	Leu	Leu	Gln	Arg	Val	Arg	Arg	Ala	Asn	Thr	Phe	Leu	35	40	45
Glu	Glu	Val	Arg	Lys	Gly	Asn	Leu	Glu	Arg	Glu	Cys	Val	Glu	Glu	Thr	50	55	60
Cys	Ser	Tyr	Glu	Glu	Ala	Phe	Glu	Ala	Leu	Glu	Ser	Ser	Thr	Ala	Thr	65	70	75
Asp	Val	Phe	Trp	Ala	Lys	Tyr	Thr	Ala	Cys	Glu	Thr	Ala	Arg	Thr	Pro	85	90	95
Arg	Asp	Lys	Leu	Ala	Ala	Cys	Leu	Glu	Gly	Asn	Cys	Ala	Glu	Gly	Leu	100	105	110
Gly	Thr	Asn	Tyr	Arg	Gly	His	Val	Asn	Ile	Thr	Arg	Ser	Gly	Ile	Glu	115	120	125
Cys	Gln	Leu	Trp	Arg	Ser	Arg	Tyr	Pro	His	Lys	Pro	Glu	Ile	Asn	Ser	130	135	140
Thr	Thr	His	Pro	Gly	Ala	Asp	Leu	Gln	Glu	Asn	Phe	Cys	Arg	Asn	Pro	145	150	155
Asp	Ser	Ser	Thr	Thr	Gly	Pro	Trp	Cys	Tyr	Thr	Thr	Asp	Pro	Thr	Val	165	170	175
Arg	Arg	Gln	Glu	Cys	Ser	Ile	Pro	Val	Cys	Gly	Gln	Asp	Gln	Val	Thr	180	185	190
Val	Ala	Met	Thr	Pro	Arg	Ser	Glu	Gly	Ser	Ser	Val	Asn	Leu	Ser	Pro	195	200	205
Pro	Leu	Glu	Gln	Cys	Val	Pro	Asp	Arg	Gly	Gln	Gln	Tyr	Gln	Gly	Arg	210	215	220
Leu	Ala	Val	Thr	Thr	His	Gly	Leu	Pro	Cys	Leu	Ala	Trp	Ala	Ser	Ala	225	230	235
Gln	Ala	Lys	Ala	Leu	Ser	Lys	His	Gln	Asp	Phe	Asn	Ser	Ala	Val	Gln	245	250	255
Leu	Val	Glu	Asn	Phe	Cys	Arg	Asn	Pro	Asp	Gly	Asp	Glu	Glu	Gly	Val	260	265	270
Trp	Cys	Tyr	Val	Ala	Gly	Lys	Pro	Gly	Asp	Phe	Gly	Tyr	Cys	Asp	Leu	275	280	285
Asn	Tyr	Cys	Glu	Glu	Ala	Val	Glu	Glu	Glu	Thr	Gly	Asp	Gly	Leu	Asp	290	295	300
Glu	Asp	Ser	Asp	Arg	Ala	Ile	Glu	Gly	Arg	Thr	Ala	Thr	Ser	Glu	Tyr	305	310	315

Gln	Thr	Phe	Phe	Asn	Pro	Arg	Thr	Phe	Gly	Ser	Gly	Glu	Ala	Asp	Cys	
				325					330					335		
Gly	Leu	Arg	Pro	Leu	Phe	Glu	Lys	Lys	Ser	Leu	Glu	Asp	Lys	Thr	Glu	
			340					345					350			
Arg	Glu	Leu	Leu	Glu	Ser	Tyr	Ile	Asp	Gly	Arg	Ile	Val	Glu	Gly	Ser	
		355					360					365				
Asp	Ala	Glu	Ile	Gly	Met	Ser	Pro	Trp	Gln	Val	Met	Leu	Phe	Arg	Lys	
	370					375					380					
Ser	Pro	Gln	Glu	Leu	Leu	Cys	Gly	Ala	Ser	Leu	Ile	Ser	Asp	Arg	Trp	
385					390					395					400	
Val	Leu	Thr	Ala	Ala	His	Cys	Leu	Leu	Tyr	Pro	Pro	Trp	Asp	Lys	Asn	
				405					410					415		
Phe	Thr	Glu	Asn	Asp	Leu	Leu	Val	Arg	Ile	Gly	Lys	His	Ser	Arg	Thr	
			420					425					430			
Arg	Tyr	Glu	Arg	Asn	Ile	Glu	Lys	Ile	Ser	Met	Leu	Glu	Lys	Ile	Tyr	
		435					440					445				
Ile	His	Pro	Arg	Tyr	Asn	Trp	Arg	Glu	Asn	Leu	Asp	Arg	Asp	Ile	Ala	
	450					455					460					
Leu	Met	Lys	Leu	Lys	Lys	Pro	Val	Ala	Phe	Ser	Asp	Tyr	Ile	His	Pro	
465					470					475					480	
Val	Cys	Leu	Pro	Asp	Arg	Glu	Thr	Ala	Ala	Ser	Leu	Leu	Gln	Ala	Gly	
				485					490					495		
Tyr	Lys	Gly	Arg	Val	Thr	Gly	Trp	Gly	Asn	Leu	Lys	Glu	Thr	Trp	Thr	
			500					505					510			
Ala	Asn	Val	Gly	Lys	Gly	Gln	Pro	Ser	Val	Leu	Gln	Val	Val	Asn	Leu	
		515					520					525				
Pro	Ile	Val	Glu	Arg	Pro	Val	Cys	Lys	Asp	Ser	Thr	Arg	Ile	Arg	Ile	
	530					535					540					
Thr	Asp	Asn	Met	Phe	Cys	Ala	Gly	Tyr	Lys	Pro	Asp	Glu	Gly	Lys	Arg	
545					550					555					560	
Gly	Asp	Ala	Cys	Glu	Gly	Asp	Ser	Gly	Gly	Pro	Phe	Val	Met	Lys	Ser	
				565					570					575		
Pro	Phe	Asn	Asn	Arg	Trp	Tyr	Gln	Met	Gly	Ile	Val	Ser	Trp	Gly	Glu	
			580					585					590			
Gly	Cys	Asp	Arg	Asp	Gly	Lys	Tyr	Gly	Phe	Tyr	Thr	His	Val	Phe	Arg	
		595					600					605				

Leu Lys Lys Trp Ile Gln Lys Val Ile Asp Gln Phe Gly Glu
 610 615 620

<210> 68

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<223> Pyruvate kinase; Accession NO:
 as of 29 August 2003: P14618

<400> 68

Ser Lys Pro His Ser Glu Ala Gly Thr Ala Phe Ile Gln Thr Gln Gln
 1 5 10 15

Leu His Ala Ala Met Ala Asp Thr Phe Leu Glu His Met Cys Arg Leu
 20 25 30

Asp Ile Asp Ser Pro Pro Ile Thr Ala Arg Asn Thr Gly Ile Ile Cys
 35 40 45

Thr Ile Gly Pro Ala Ser Arg Ser Val Glu Thr Leu Lys Glu Met Ile
 50 55 60

Lys Ser Gly Met Asn Val Ala Arg Leu Asn Phe Ser His Gly Thr His
 65 70 75 80

Glu Tyr His Ala Glu Thr Ile Lys Asn Val Arg Thr Ala Thr Glu Ser
 85 90 95

Phe Ala Ser Asp Pro Ile Leu Tyr Arg Pro Val Ala Val Ala Leu Asp
 100 105 110

Thr Lys Gly Pro Glu Ile Arg Thr Gly Leu Ile Lys Gly Ser Gly Thr
 115 120 125

Ala Glu Val Glu Leu Lys Lys Gly Ala Thr Leu Lys Ile Thr Leu Asp
 130 135 140

Asn Ala Tyr Met Glu Lys Cys Asp Glu Asn Ile Leu Trp Leu Asp Tyr
 145 150 155 160

Lys Asn Ile Cys Lys Val Val Glu Val Gly Ser Lys Ile Tyr Val Asp
 165 170 175

Asp Gly Leu Ile Ser Leu Gln Val Lys Gln Lys Gly Ala Asp Phe Leu
 180 185 190

Val Thr Glu Val Glu Asn Gly Gly Ser Leu Gly Ser Lys Lys Gly Val
 195 200 205

Asn	Leu	Pro	Gly	Ala	Ala	Val	Asp	Leu	Pro	Ala	Val	Ser	Glu	Lys	Asp	210	215	220
Ile	Gln	Asp	Leu	Lys	Phe	Gly	Val	Glu	Gln	Asp	Val	Asp	Met	Val	Phe	225	230	235
Ala	Ser	Phe	Ile	Arg	Lys	Ala	Ser	Asp	Val	His	Glu	Val	Arg	Lys	Val	245	250	255
Leu	Gly	Glu	Lys	Gly	Lys	Asn	Ile	Lys	Ile	Ile	Ser	Lys	Ile	Glu	Asn	260	265	270
His	Glu	Gly	Val	Arg	Arg	Phe	Asp	Glu	Ile	Leu	Glu	Ala	Ser	Asp	Gly	275	280	285
Ile	Met	Val	Ala	Arg	Gly	Asp	Leu	Gly	Ile	Glu	Ile	Pro	Ala	Glu	Lys	290	295	300
Val	Phe	Leu	Ala	Gln	Lys	Met	Met	Ile	Gly	Arg	Cys	Asn	Arg	Ala	Gly	305	310	315
Lys	Pro	Val	Ile	Cys	Ala	Thr	Gln	Met	Leu	Glu	Ser	Met	Ile	Lys	Lys	325	330	335
Pro	Arg	Pro	Thr	Arg	Ala	Glu	Gly	Ser	Asp	Val	Ala	Asn	Ala	Val	Leu	340	345	350
Asp	Gly	Ala	Asp	Cys	Ile	Met	Leu	Ser	Gly	Glu	Thr	Ala	Lys	Gly	Asp	355	360	365
Tyr	Pro	Leu	Glu	Ala	Val	Arg	Met	Gln	His	Leu	Ile	Ala	Arg	Glu	Ala	370	375	380
Glu	Ala	Ala	Ile	Tyr	His	Leu	Gln	Leu	Phe	Glu	Glu	Leu	Arg	Arg	Leu	385	390	395
Ala	Pro	Ile	Thr	Ser	Asp	Pro	Thr	Glu	Ala	Thr	Ala	Val	Gly	Ala	Val	405	410	415
Glu	Ala	Ser	Phe	Lys	Cys	Cys	Ser	Gly	Ala	Ile	Ile	Val	Leu	Thr	Lys	420	425	430
Ser	Gly	Arg	Ser	Ala	His	Gln	Val	Ala	Arg	Tyr	Arg	Pro	Arg	Ala	Pro	435	440	445
Ile	Ile	Ala	Val	Thr	Arg	Asn	Pro	Gln	Thr	Ala	Arg	Gln	Ala	His	Leu	450	455	460
Tyr	Arg	Gly	Ile	Phe	Pro	Val	Leu	Cys	Lys	Asp	Pro	Val	Gln	Glu	Ala	465	470	475
Trp	Ala	Glu	Asp	Val	Asp	Leu	Arg	Val	Asn	Phe	Ala	Met	Asn	Val	Gly	485	490	495

Lys Ala Arg Gly Phe Phe Lys Lys Gly Asp Val Val Ile Val Leu Thr
 500 505 510

Gly Trp Arg Pro Gly Ser Gly Phe Thr Asn Thr Met Arg Val Val Pro
 515 520 525

Val Pro
 530

<210> 69
 <211> 328
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Reticulocalbin 3 precursor;
 Accession NO: as of 29 August 2003: Q96D15

<400> 69
 Met Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His
 1 5 10 15

Gly Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly
 20 25 30

Arg Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala
 35 40 45

His Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val
 50 55 60

Ala Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu
 65 70 75 80

Gly Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp
 85 90 95

Val Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg
 100 105 110

His Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp
 115 120 125

Arg Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly
 130 135 140

His Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr
 145 150 155 160

Tyr Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp
 165 170 175

Gln Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu
 180 185 190
 His Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr
 195 200 205
 Leu Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu
 210 215 220
 Tyr Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala
 225 230 235 240
 Trp Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn
 245 250 255
 Lys Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val Leu Pro
 260 265 270
 Pro Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu Leu His Glu
 275 280 285
 Ser Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala Glu Ile Leu Gly
 290 295 300
 Asn Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly Glu Asp
 305 310 315 320
 Leu Thr Arg His His Asp Glu Leu
 325

<210> 70
 <211> 469
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Desmin; Accession NO: as of 29 August 2003: P17661

<400> 70
 Ser Gln Ala Tyr Ser Ser Ser Gln Arg Val Ser Ser Tyr Arg Arg Thr
 1 5 10 15
 Phe Gly Gly Ala Pro Gly Phe Pro Leu Gly Ser Pro Leu Ser Ser Pro
 20 25 30
 Val Phe Pro Arg Ala Gly Phe Gly Ser Lys Gly Ser Ser Ser Val
 35 40 45
 Thr Ser Arg Val Tyr Gln Val Ser Arg Thr Ser Gly Gly Ala Gly Gly
 50 55 60
 Leu Gly Ser Leu Arg Ala Ser Arg Leu Gly Thr Thr Arg Thr Pro Ser
 65 70 75 80

Ser Tyr Gly Ala Gly Glu Leu Leu Asp Phe Ser Leu Ala Asp Ala Val
 85 90 95
 Asn Gln Glu Phe Leu Thr Thr Arg Thr Asn Glu Lys Val Glu Leu Gln
 100 105 110
 Glu Leu Asn Asp Arg Phe Ala Asn Tyr Ile Glu Lys Val Arg Phe Leu
 115 120 125
 Glu Gln Gln Asn Ala Ala Leu Ala Ala Glu Val Asn Arg Leu Lys Gly
 130 135 140
 Arg Glu Pro Thr Arg Val Ala Glu Leu Tyr Glu Glu Glu Leu Arg Glu
 145 150 155 160
 Leu Arg Arg Gln Val Glu Val Leu Thr Asn Gln Arg Ala Arg Val Asp
 165 170 175
 Val Glu Arg Asp Asn Leu Leu Asp Asp Leu Gln Arg Leu Lys Ala Lys
 180 185 190
 Leu Gln Glu Glu Ile Gln Leu Lys Glu Glu Ala Glu Asn Asn Leu Ala
 195 200 205
 Ala Phe Arg Ala Asp Val Asp Ala Ala Thr Leu Ala Arg Ile Asp Leu
 210 215 220
 Glu Arg Arg Ile Glu Ser Leu Asn Glu Glu Ile Ala Phe Leu Lys Lys
 225 230 235 240
 Val His Glu Glu Glu Ile Arg Glu Leu Gln Ala Gln Leu Gln Glu Gln
 245 250 255
 Gln Val Gln Val Glu Met Asp Met Ser Lys Pro Asp Leu Thr Ala Ala
 260 265 270
 Leu Arg Asp Ile Arg Ala Gln Tyr Glu Thr Ile Ala Ala Lys Asn Ile
 275 280 285
 Ser Glu Ala Glu Glu Trp Tyr Lys Ser Lys Val Ser Asp Leu Thr Gln
 290 295 300
 Ala Ala Asn Lys Asn Asn Asp Ala Leu Arg Gln Ala Lys Gln Glu Met
 305 310 315 320
 Met Glu Tyr Arg His Gln Ile Gln Ser Tyr Thr Cys Glu Ile Asp Ala
 325 330 335
 Leu Lys Gly Thr Asn Asp Ser Leu Met Arg Gln Met Arg Glu Leu Glu
 340 345 350
 Asp Arg Phe Ala Ser Glu Ala Ser Gly Tyr Gln Asp Asn Ile Ala Arg
 355 360 365

Leu Glu Glu Glu Ile Arg His Leu Lys Asp Glu Met Ala Arg His Leu
 370 375 380
 Arg Glu Tyr Gln Asp Leu Leu Asn Val Lys Met Ala Leu Asp Val Glu
 385 390 395 400
 Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Ile Asn
 405 410 415
 Leu Pro Ile Gln Thr Tyr Ser Ala Leu Asn Phe Arg Glu Thr Ser Pro
 420 425 430
 Glu Gln Arg Gly Ser Glu Val His Thr Lys Lys Thr Val Met Ile Lys
 435 440 445
 Thr Ile Glu Thr Arg Asp Gly Glu Val Val Ser Glu Ala Thr Gln Gln
 450 455 460
 Gln His Glu Val Leu
 465

<210> 71
 <211> 417
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Carboxypeptidase B precursor;
 Accession NO: as of 29 August 2003: P15086

<400> 71
 Met Leu Ala Leu Leu Val Leu Val Thr Val Ala Leu Ala Ser Ala His
 1 5 10 15
 His Gly Gly Glu His Phe Glu Gly Glu Lys Val Phe Arg Val Asn Val
 20 25 30
 Glu Asp Glu Asn His Ile Asn Ile Ile Arg Glu Leu Ala Ser Thr Thr
 35 40 45
 Gln Ile Asp Phe Trp Lys Pro Asp Ser Val Thr Gln Ile Lys Pro His
 50 55 60
 Ser Thr Val Asp Phe Arg Val Lys Ala Glu Asp Thr Val Thr Val Glu
 65 70 75 80
 Asn Val Leu Lys Gln Asn Glu Leu Gln Tyr Lys Val Leu Ile Ser Asn
 85 90 95
 Leu Arg Asn Val Val Glu Ala Gln Phe Asp Ser Arg Val Arg Ala Thr
 100 105 110

Gly His Ser Tyr Glu Lys Tyr Asn Lys Trp Glu Thr Ile Glu Ala Trp
 115 120 125
 Thr Gln Gln Val Ala Thr Glu Asn Pro Ala Leu Ile Ser Arg Ser Val
 130 135 140
 Ile Gly Thr Thr Phe Glu Gly Arg Ala Ile Tyr Leu Leu Lys Val Gly
 145 150 155 160
 Lys Ala Gly Gln Asn Lys Pro Ala Ile Phe Met Asp Cys Gly Phe His
 165 170 175
 Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Gln Trp Phe Val Arg Glu
 180 185 190
 Ala Val Arg Thr Tyr Gly Arg Glu Ile Gln Val Thr Glu Leu Leu Asp
 195 200 205
 Lys Leu Asp Phe Tyr Val Leu Pro Val Leu Asn Ile Asp Gly Tyr Ile
 210 215 220
 Tyr Thr Trp Thr Lys Ser Arg Phe Trp Arg Lys Thr Arg Ser Thr His
 225 230 235 240
 Thr Gly Ser Ser Cys Ile Gly Thr Asp Pro Asn Arg Asn Phe Asp Ala
 245 250 255
 Gly Trp Cys Glu Ile Gly Ala Ser Arg Asn Pro Cys Asp Glu Thr Tyr
 260 265 270
 Cys Gly Pro Ala Ala Glu Ser Glu Lys Glu Thr Lys Ala Leu Ala Asp
 275 280 285
 Phe Ile Arg Asn Lys Leu Ser Ser Ile Lys Ala Tyr Leu Thr Ile His
 290 295 300
 Ser Tyr Ser Gln Met Met Ile Tyr Pro Tyr Ser Tyr Ala Tyr Lys Leu
 305 310 315 320
 Gly Glu Asn Asn Ala Glu Leu Asn Ala Leu Ala Lys Ala Thr Val Lys
 325 330 335
 Glu Leu Ala Ser Leu His Gly Thr Lys Tyr Thr Tyr Gly Pro Gly Ala
 340 345 350
 Thr Thr Ile Tyr Pro Ala Ala Gly Gly Ser Asp Asp Trp Ala Tyr Asp
 355 360 365
 Gln Gly Ile Arg Tyr Ser Phe Thr Phe Glu Leu Arg Asp Thr Gly Arg
 370 375 380
 Tyr Gly Phe Leu Leu Pro Glu Ser Gln Ile Arg Ala Thr Cys Glu Glu
 385 390 395 400

Thr Phe Leu Ala Ile Lys Tyr Val Ala Ser Tyr Val Leu Glu His Leu
405 410 415

Tyr

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<210> 72
<211> 419
<212> PRT
<213> Homo sapiens
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<220>
<223> Carboxypeptidase A1 precursor;
Accession NO: as of 29 August 2003: P15085

<400> 72															
Met 1	Arg	Gly	Leu	Leu 5	Val	Leu	Ser	Val	Leu 10	Leu	Gly	Ala	Val	Phe 15	Gly
Lys	Glu	Asp	Phe 20	Val	Gly	His	Gln	Val 25	Leu	Arg	Ile	Ser	Val 30	Ala	Asp
Glu	Ala	Gln 35	Val	Gln	Lys	Val	Lys 40	Glu	Leu	Glu	Asp	Leu 45	Glu	His	Leu
Gln	Leu 50	Asp	Phe	Trp	Arg	Gly 55	Pro	Ala	His	Pro	Gly 60	Ser	Pro	Ile	Asp
Val 65	Arg	Val	Pro	Phe	Pro 70	Ser	Ile	Gln	Ala	Val 75	Lys	Ile	Phe	Leu	Glu 80
Ser	His	Gly	Ile	Ser 85	Tyr	Glu	Thr	Met	Ile 90	Glu	Asp	Val	Gln	Ser 95	Leu
Leu	Asp	Glu	Glu 100	Gln	Glu	Gln	Met	Phe 105	Ala	Phe	Arg	Ser	Arg 110	Ala	Arg
Ser	Thr	Asp 115	Thr	Phe	Asn	Tyr	Ala 120	Thr	Tyr	His	Thr	Leu 125	Glu	Glu	Ile
Tyr 130	Asp	Phe	Leu	Asp	Leu	Leu 135	Val	Ala	Glu	Asn	Pro 140	His	Leu	Val	Ser
Lys 145	Ile	Gln	Ile	Gly	Asn 150	Thr	Tyr	Glu	Gly	Arg 155	Pro	Ile	Tyr	Val	Leu 160
Lys	Phe	Ser	Thr	Gly 165	Gly	Ser	Lys	Arg	Pro 170	Ala	Ile	Trp	Ile	Asp 175	Thr
Gly	Ile	His	Ser 180	Arg	Glu	Trp	Val	Thr 185	Gln	Ala	Ser	Gly	Val 190	Trp	Phe

Ala Lys Lys Ile Thr Gln Asp Tyr Gly Gln Asp Ala Ala Phe Thr Ala
 195 200 205
 Ile Leu Asp Thr Leu Asp Ile Phe Leu Glu Ile Val Thr Asn Pro Asp
 210 215 220
 Gly Phe Ala Phe Thr His Ser Thr Asn Arg Met Trp Arg Lys Thr Arg
 225 230 235 240
 Ser His Thr Ala Gly Ser Leu Cys Ile Gly Val Asp Pro Asn Arg Asn
 245 250 255
 Trp Asp Ala Gly Phe Gly Leu Ser Gly Ala Ser Ser Asn Pro Cys Ser
 260 265 270
 Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu Val Glu Val Lys Ser
 275 280 285
 Ile Val Asp Phe Val Lys Asp His Gly Asn Ile Lys Ala Phe Ile Ser
 290 295 300
 Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro Tyr Gly Tyr Lys Thr
 305 310 315 320
 Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Gln Leu Ser Lys Ala Ala
 325 330 335
 Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys Phe Asn Tyr Gly Ser
 340 345 350
 Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser Thr Ile Asp Trp Thr
 355 360 365
 Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg Asp Thr
 370 375 380
 Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln Ile Ile Pro Thr Ala
 385 390 395 400
 Lys Glu Thr Trp Leu Ala Leu Leu Thr Ile Met Glu His Thr Leu Asn
 405 410 415
 His Pro Tyr

<210> 73
 <211> 418
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Colligin 2; Accession NO: as of 29 August 2003: P50454

<400> 73

Met	Arg	Ser	Leu	Leu	Leu	Leu	Ser	Ala	Phe	Cys	Leu	Leu	Glu	Ala	Ala		
1			5						10					15			
Leu	Ala	Ala	Glu	Val	Lys	Lys	Pro	Ala	Ala	Ala	Ala	Ala	Pro	Gly	Thr		
			20					25					30				
Ala	Glu	Lys	Leu	Ser	Pro	Lys	Ala	Ala	Thr	Leu	Ala	Glu	Arg	Ser	Ala		
		35					40					45					
Gly	Leu	Ala	Phe	Ser	Leu	Tyr	Gln	Ala	Met	Ala	Lys	Asp	Gln	Ala	Val		
	50					55					60						
Glu	Asn	Ile	Leu	Val	Ser	Pro	Val	Val	Val	Ala	Ser	Ser	Leu	Gly	Leu		
65					70					75					80		
Val	Ser	Leu	Gly	Gly	Lys	Ala	Thr	Thr	Ala	Ser	Gln	Ala	Lys	Ala	Val		
				85					90					95			
Leu	Ser	Ala	Glu	Gln	Leu	Arg	Asp	Glu	Glu	Val	His	Ala	Gly	Leu	Gly		
			100					105					110				
Glu	Leu	Leu	Arg	Ser	Leu	Ser	Asn	Ser	Thr	Ala	Arg	Asn	Val	Thr	Trp		
		115					120					125					
Lys	Leu	Gly	Ser	Arg	Leu	Tyr	Gly	Pro	Ser	Ser	Val	Ser	Phe	Ala	Asp		
	130					135					140						
Asp	Phe	Val	Arg	Ser	Ser	Lys	Gln	His	Tyr	Asn	Cys	Glu	His	Ser	Lys		
145					150					155					160		
Ile	Asn	Phe	Arg	Asp	Lys	Arg	Ser	Ala	Leu	Gln	Ser	Ile	Asn	Glu	Trp		
				165					170					175			
Ala	Ala	Gln	Thr	Thr	Asp	Gly	Lys	Leu	Pro	Glu	Val	Thr	Lys	Asp	Val		
			180					185					190				
Glu	Arg	Thr	Asp	Gly	Ala	Leu	Leu	Val	Asn	Ala	Met	Phe	Phe	Lys	Pro		
		195				200						205					
His	Trp	Asp	Glu	Lys	Phe	His	His	Lys	Met	Val	Asp	Asn	Arg	Gly	Phe		
	210					215					220						
Met	Val	Thr	Arg	Ser	Tyr	Thr	Val	Gly	Val	Met	Met	Met	His	Arg	Thr		
225					230					235					240		
Gly	Leu	Tyr	Asn	Tyr	Tyr	Asp	Asp	Glu	Lys	Glu	Lys	Leu	Gln	Ile	Val		
			245					250						255			
Glu	Met	Pro	Leu	Ala	His	Lys	Leu	Ser	Ser	Leu	Ile	Ile	Leu	Met	Pro		
			260					265					270				
His	His	Val	Glu	Pro	Leu	Glu	Arg	Leu	Glu	Lys	Leu	Leu	Thr	Lys	Glu		
		275					280					285					

Gln Leu Lys Ile Trp Met Gly Lys Met Gln Lys Lys Ala Val Ala Ile
 290 295 300
 Ser Leu Pro Lys Gly Val Val Glu Val Thr His Asp Leu Gln Lys His
 305 310 315 320
 Leu Ala Gly Leu Gly Leu Thr Glu Ala Ile Asp Lys Asn Lys Ala Asp
 325 330 335
 Leu Ser Arg Met Ser Gly Lys Lys Asp Leu Tyr Leu Ala Ser Val Phe
 340 345 350
 His Ala Thr Ala Phe Glu Leu Asp Thr Asp Gly Asn Pro Phe Asp Gln
 355 360 365
 Asp Ile Tyr Gly Arg Glu Glu Leu Arg Ser Pro Lys Leu Phe Tyr Ala
 370 375 380
 Asp His Pro Phe Ile Phe Leu Val Arg Asp Thr Gln Ser Gly Ser Leu
 385 390 395 400
 Leu Phe Ile Gly Arg Leu Val Arg Pro Lys Gly Asp Lys Met Arg Asp
 405 410 415
 Glu Leu

<210> 74
 <211> 263
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Chymotrypsinogen B precursor;
 Accession NO: as of 29 August 2003: P17538

<400> 74
 Met Ala Phe Leu Trp Leu Leu Ser Cys Trp Ala Leu Leu Gly Thr Thr
 1 5 10 15
 Phe Gly Cys Gly Val Pro Ala Ile His Pro Val Leu Ser Gly Leu Ser
 20 25 30
 Arg Ile Val Asn Gly Glu Asp Ala Val Pro Gly Ser Trp Pro Trp Gln
 35 40 45
 Val Ser Leu Gln Asp Lys Thr Gly Phe His Phe Cys Gly Gly Ser Leu
 50 55 60
 Ile Ser Glu Asp Trp Val Val Thr Ala Ala His Cys Gly Val Arg Thr
 65 70 75 80

<213> Homo sapiens

Accession NO: as of 29 August 2003: P07477

Pro Phe Asp Asp Asp Asp Lys Ile Val Gly Gly Tyr Asn Cys Glu Glu
20 25 30

Asn	Ser	Val	Pro	Tyr	Gln	Val	Ser	Leu	Asn	Ser	Gly	Tyr	His	Phe	Cys
		35					40					45			
Gly	Gly	Ser	Leu	Ile	Asn	Glu	Gln	Trp	Val	Val	Ser	Ala	Gly	His	Cys
	50					55					60				
Tyr	Lys	Ser	Arg	Ile	Gln	Val	Arg	Leu	Gly	Glu	His	Asn	Ile	Glu	Val
65					70					75				80	
Leu	Glu	Gly	Asn	Glu	Gln	Phe	Ile	Asn	Ala	Ala	Lys	Ile	Ile	Arg	His
				85					90					95	
Pro	Gln	Tyr	Asp	Arg	Lys	Thr	Leu	Asn	Asn	Asp	Ile	Met	Leu	Ile	Lys
			100					105					110		
Leu	Ser	Ser	Arg	Ala	Val	Ile	Asn	Ala	Arg	Val	Ser	Thr	Ile	Ser	Leu
		115					120					125			
Pro	Thr	Ala	Pro	Pro	Ala	Thr	Gly	Thr	Lys	Cys	Leu	Ile	Ser	Gly	Trp
	130					135					140				
Gly	Asn	Thr	Ala	Ser	Ser	Gly	Ala	Asp	Tyr	Pro	Asp	Glu	Leu	Gln	Cys
145					150					155				160	
Leu	Asp	Ala	Pro	Val	Leu	Ser	Gln	Ala	Lys	Cys	Glu	Ala	Ser	Tyr	Pro
				165					170					175	
Gly	Lys	Ile	Thr	Ser	Asn	Met	Phe	Cys	Val	Gly	Phe	Leu	Glu	Gly	Gly
			180					185				190			
Lys	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Val	Val	Cys	Asn	Gly
	195						200					205			
Gln	Leu	Gln	Gly	Val	Val	Ser	Trp	Gly	Asp	Gly	Cys	Ala	Gln	Lys	Asn
	210					215					220				
Lys	Pro	Gly	Val	Tyr	Thr	Lys	Val	Tyr	Asn	Tyr	Val	Lys	Trp	Ile	Lys
225					230				235					240	
Asn	Thr	Ile	Ala	Ala	Asn	Ser									
				245											

<210> 76

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<223> Trypsin II precursor;

Accession NO: as of 29 August 2003: P07478

<210> 77
 <211> 379
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Leukocyte elastase inhibitor (LEI);
 Accession NO: as of 29 August 2003: P30740

<400> 77
 Met Glu Gln Leu Ser Ser Ala Asn Thr Arg Phe Ala Leu Asp Leu Phe
 1 5 10 15
 Leu Ala Leu Ser Glu Asn Asn Pro Ala Gly Asn Ile Phe Ile Ser Pro
 20 25 30
 Phe Ser Ile Ser Ser Ala Met Ala Met Val Phe Leu Gly Thr Arg Gly
 35 40 45
 Asn Thr Ala Ala Gln Leu Ser Lys Thr Phe His Phe Asn Thr Val Glu
 50 55 60
 Glu Val His Ser Arg Phe Gln Ser Leu Asn Ala Asp Ile Asn Lys Arg
 65 70 75 80
 Gly Ala Ser Tyr Ile Leu Lys Leu Ala Asn Arg Leu Tyr Gly Glu Lys
 85 90 95
 Thr Tyr Asn Phe Leu Pro Glu Phe Leu Val Ser Thr Gln Lys Thr Tyr
 100 105 110
 Gly Ala Asp Leu Ala Ser Val Asp Phe Gln His Ala Ser Glu Asp Ala
 115 120 125
 Arg Lys Thr Ile Asn Gln Trp Val Lys Gly Gln Thr Glu Gly Lys Ile
 130 135 140
 Pro Glu Leu Leu Ala Ser Gly Met Val Asp Asn Met Thr Lys Leu Val
 145 150 155 160
 Leu Val Asn Ala Ile Tyr Phe Lys Gly Asn Trp Lys Asp Lys Phe Met
 165 170 175
 Lys Glu Ala Thr Thr Asn Ala Pro Phe Arg Leu Asn Lys Lys Asp Arg
 180 185 190
 Lys Thr Val Lys Met Met Tyr Gln Lys Lys Lys Phe Ala Tyr Gly Tyr
 195 200 205
 Ile Glu Asp Leu Lys Cys Arg Val Leu Glu Leu Pro Tyr Gln Gly Glu
 210 215 220
 Glu Leu Ser Met Val Ile Leu Leu Pro Asp Asp Ile Glu Asp Glu Ser
 225 230 235 240

Thr Gly Leu Lys Lys Ile Glu Glu Gln Leu Thr Leu Glu Lys Leu His
 245 250 255
 Glu Trp Thr Lys Pro Glu Asn Leu Asp Phe Ile Glu Val Asn Val Ser
 260 265 270
 Leu Pro Arg Phe Lys Leu Glu Glu Ser Tyr Thr Leu Asn Ser Asp Leu
 275 280 285
 Ala Arg Leu Gly Val Gln Asp Leu Phe Asn Ser Ser Lys Ala Asp Leu
 290 295 300
 Ser Gly Met Ser Gly Ala Arg Asp Ile Phe Ile Ser Lys Ile Val His
 305 310 315 320
 Lys Ser Phe Val Glu Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Ala
 325 330 335
 Thr Ala Gly Ile Ala Thr Phe Cys Met Leu Met Pro Glu Glu Asn Phe
 340 345 350
 Thr Ala Asp His Pro Phe Leu Phe Phe Ile Arg His Asn Ser Ser Gly
 355 360 365
 Ser Ile Leu Phe Leu Gly Arg Phe Ser Ser Pro
 370 375

<210> 78
 <211> 573
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Hsp60; Accession NO: as of 29 August 2003: P10809

<400> 78
 Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg
 1 5 10 15
 Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe
 20 25 30
 Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
 35 40 45
 Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile
 50 55 60
 Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val
 65 70 75 80

Ala	Lys	Ser	Ile	Asp	Leu	Lys	Asp	Lys	Tyr	Lys	Asn	Ile	Gly	Ala	Lys	
				85					90					95		
Leu	Val	Gln	Asp	Val	Ala	Asn	Asn	Thr	Asn	Glu	Glu	Ala	Gly	Asp	Gly	
			100					105					110			
Thr	Thr	Thr	Ala	Thr	Val	Leu	Ala	Arg	Ser	Ile	Ala	Lys	Glu	Gly	Phe	
			115				120					125				
Glu	Lys	Ile	Ser	Lys	Gly	Ala	Asn	Pro	Val	Glu	Ile	Arg	Arg	Gly	Val	
	130					135					140					
Met	Leu	Ala	Val	Asp	Ala	Val	Ile	Ala	Glu	Leu	Lys	Lys	Gln	Ser	Lys	
145					150					155					160	
Pro	Val	Thr	Thr	Pro	Glu	Glu	Ile	Ala	Gln	Val	Ala	Thr	Ile	Ser	Ala	
				165					170					175		
Asn	Gly	Asp	Lys	Glu	Ile	Gly	Asn	Ile	Ile	Ser	Asp	Ala	Met	Lys	Lys	
			180				185						190			
Val	Gly	Arg	Lys	Gly	Val	Ile	Thr	Val	Lys	Asp	Gly	Lys	Thr	Leu	Asn	
		195					200					205				
Asp	Glu	Leu	Glu	Ile	Ile	Glu	Gly	Met	Lys	Phe	Asp	Arg	Gly	Tyr	Ile	
	210					215					220					
Ser	Pro	Tyr	Phe	Ile	Asn	Thr	Ser	Lys	Gly	Gln	Lys	Cys	Glu	Phe	Gln	
225					230					235					240	
Asp	Ala	Tyr	Val	Leu	Leu	Ser	Glu	Lys	Lys	Ile	Ser	Ser	Ile	Gln	Ser	
				245					250					255		
Ile	Val	Pro	Ala	Leu	Glu	Ile	Ala	Asn	Ala	His	Arg	Lys	Pro	Leu	Val	
			260					265					270			
Ile	Ile	Ala	Glu	Asp	Val	Asp	Gly	Glu	Ala	Leu	Ser	Thr	Leu	Val	Leu	
		275					280					285				
Asn	Arg	Leu	Lys	Val	Gly	Leu	Gln	Val	Val	Ala	Val	Lys	Ala	Pro	Gly	
	290					295					300					
Phe	Gly	Asp	Asn	Arg	Lys	Asn	Gln	Leu	Lys	Asp	Met	Ala	Ile	Ala	Thr	
305					310					315					320	
Gly	Gly	Ala	Val	Phe	Gly	Glu	Glu	Gly	Leu	Thr	Leu	Asn	Leu	Glu	Asp	
				325					330					335		
Val	Gln	Pro	His	Asp	Leu	Gly	Lys	Val	Gly	Glu	Val	Ile	Val	Thr	Lys	
			340					345					350			
Asp	Asp	Ala	Met	Leu	Leu	Lys	Gly	Lys	Gly	Asp	Lys	Ala	Gln	Ile	Glu	
		355					360					365				

Lys Arg Ile Gln Glu Ile Ile Glu Gln Leu Asp Val Thr Thr Ser Glu
 370 375 380
 Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly
 385 390 395 400
 Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu
 405 410 415
 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val
 420 425 430
 Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile
 435 440 445
 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
 450 455 460
 Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
 465 470 475 480
 Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
 485 490 495
 Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn
 500 505 510
 Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala
 515 520 525
 Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val
 530 535 540
 Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala
 545 550 555 560
 Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe
 565 570

<210> 79
 <211> 803
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Endoplasmin precursor (GRP94);
 Accession NO: as of 29 August 2003: P14625

<400> 79
 Met Arg Ala Leu Trp Val Leu Gly Leu Cys Cys Val Leu Leu Thr Phe
 1 5 10 15

Gly Ser Val Arg Ala Asp Asp Glu Val Asp Val Asp Gly Thr Val Glu
 20 25 30

Glu Asp Leu Gly Lys Ser Arg Glu Gly Ser Arg Thr Asp Asp Glu Val
 35 40 45

Val Gln Arg Glu Glu Glu Ala Ile Gln Leu Asp Gly Leu Asn Ala Ser
 50 55 60

Gln Ile Arg Glu Leu Arg Glu Lys Ser Glu Lys Phe Ala Phe Gln Ala
 65 70 75 80

Glu Val Asn Arg Met Met Lys Leu Ile Ile Asn Ser Leu Tyr Lys Asn
 85 90 95

Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser Asp Ala Leu
 100 105 110

Asp Lys Ile Arg Leu Ile Ser Leu Thr Asp Glu Asn Ala Leu Ser Gly
 115 120 125

Asn Glu Glu Leu Thr Val Lys Ile Lys Cys Asp Lys Glu Lys Asn Leu
 130 135 140

Leu His Val Thr Asp Thr Gly Val Gly Met Thr Arg Glu Glu Leu Val
 145 150 155 160

Lys Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Ser Glu Phe Leu Asn
 165 170 175

Lys Met Thr Glu Ala Gln Glu Asp Gly Gln Ser Thr Ser Glu Leu Ile
 180 185 190

Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu Val Ala Asp Lys
 195 200 205

Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln His Ile Trp Glu
 210 215 220

Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro Arg Gly Asn Thr
 225 230 235 240

Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys Glu Glu Ala Ser
 245 250 255

Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val Lys Lys Tyr Ser
 260 265 270

Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser Lys Thr Glu Thr
 275 280 285

Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys Glu Glu Lys Glu
 290 295 300

Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu Glu Glu Lys Lys
 305 310 315 320
 Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp Trp Glu Leu Met
 325 330 335
 Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys Glu Val Glu Glu
 340 345 350
 Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys Glu Ser Asp Asp
 355 360 365
 Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu Val Thr Phe Lys
 370 375 380
 Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly Leu Phe Asp Glu
 385 390 395 400
 Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr Val Arg Arg Val
 405 410 415
 Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys Tyr Leu Asn Phe
 420 425 430
 Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu Asn Val Ser Arg
 435 440 445
 Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu
 450 455 460
 Val Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr
 465 470 475 480
 Asn Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val
 485 490 495
 Ile Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe
 500 505 510
 Gln Ser Ser His His Pro Thr Asp Ile Thr Ser Leu Asp Gln Tyr Val
 515 520 525
 Glu Arg Met Lys Glu Lys Gln Asp Lys Ile Tyr Phe Met Ala Gly Ser
 530 535 540
 Ser Arg Lys Glu Ala Glu Ser Ser Pro Phe Val Glu Arg Leu Leu Lys
 545 550 555 560
 Lys Gly Tyr Glu Val Ile Tyr Leu Thr Glu Pro Val Asp Glu Tyr Cys
 565 570 575
 Ile Gln Ala Leu Pro Glu Phe Asp Gly Lys Arg Phe Gln Asn Val Ala
 580 585 590

Lys Glu Gly Val Lys Phe Asp Glu Ser Glu Lys Thr Lys Glu Ser Arg
 595 600 605
 Glu Ala Val Glu Lys Glu Phe Glu Pro Leu Leu Asn Trp Met Lys Asp
 610 615 620
 Lys Ala Leu Lys Asp Lys Ile Glu Lys Ala Val Val Ser Gln Arg Leu
 625 630 635 640
 Thr Glu Ser Pro Cys Ala Leu Val Ala Ser Gln Tyr Gly Trp Ser Gly
 645 650 655
 Asn Met Glu Arg Ile Met Lys Ala Gln Ala Tyr Gln Thr Gly Lys Asp
 660 665 670
 Ile Ser Thr Asn Tyr Tyr Ala Ser Gln Lys Lys Thr Phe Glu Ile Asn
 675 680 685
 Pro Arg His Pro Leu Ile Arg Asp Met Leu Arg Arg Ile Lys Glu Asp
 690 695 700
 Glu Asp Asp Lys Thr Val Leu Asp Leu Ala Val Val Leu Phe Glu Thr
 705 710 715 720
 Ala Thr Leu Arg Ser Gly Tyr Leu Leu Pro Asp Thr Lys Ala Tyr Gly
 725 730 735
 Asp Arg Ile Glu Arg Met Leu Arg Leu Ser Leu Asn Ile Asp Pro Asp
 740 745 750
 Ala Lys Val Glu Glu Glu Pro Glu Glu Glu Pro Glu Glu Thr Ala Glu
 755 760 765
 Asp Thr Thr Glu Asp Thr Glu Gln Asp Glu Asp Glu Glu Met Asp Val
 770 775 780
 Gly Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys
 785 790 795 800
 Asp Glu Leu

<210> 80

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<223> Endoplasmic reticulum protein Erp29 precursor
 (Erp31) (Erp28); Accession NO: as of
 29 August 2003: P30040

<400> 80

Met Ala Ala Ala Val Pro Arg Ala Ala Phe Leu Ser Pro Leu Leu Pro
 1 5 10 15
 Leu Leu Leu Gly Phe Leu Leu Leu Ser Ala Pro His Gly Gly Ser Gly
 20 25 30
 Leu His Thr Lys Gly Ala Leu Pro Leu Asp Thr Val Thr Phe Tyr Lys
 35 40 45
 Val Ile Pro Lys Ser Lys Phe Val Leu Val Lys Phe Asp Thr Gln Tyr
 50 55 60
 Pro Tyr Gly Glu Lys Gln Asp Glu Phe Lys Arg Leu Ala Glu Asn Ser
 65 70 75 80
 Ala Ser Ser Asp Asp Leu Leu Val Ala Glu Val Gly Ile Ser Asp Tyr
 85 90 95
 Gly Asp Lys Leu Asn Met Glu Leu Ser Glu Lys Tyr Lys Leu Asp Lys
 100 105 110
 Glu Ser Tyr Pro Val Phe Tyr Leu Phe Arg Asp Gly Asp Phe Glu Asn
 115 120 125
 Pro Val Pro Tyr Thr Gly Ala Val Lys Val Gly Ala Ile Gln Arg Trp
 130 135 140
 Leu Lys Gly Gln Gly Val Tyr Leu Gly Met Pro Gly Cys Leu Pro Val
 145 150 155 160
 Tyr Asp Ala Leu Ala Gly Glu Phe Ile Arg Ala Ser Gly Val Glu Ala
 165 170 175
 Arg Gln Ala Leu Leu Lys Gln Gly Gln Asp Asn Leu Ser Ser Val Lys
 180 185 190
 Glu Thr Gln Lys Lys Trp Ala Glu Gln Tyr Leu Lys Ile Met Gly Lys
 195 200 205
 Ile Leu Asp Gln Gly Glu Asp Phe Pro Ala Ser Glu Met Thr Arg Ile
 210 215 220
 Ala Arg Leu Ile Glu Lys Asn Lys Met Ser Asp Gly Lys Lys Glu Glu
 225 230 235 240
 Leu Gln Lys Ser Leu Asn Ile Leu Thr Ala Phe Gln Lys Lys Gly Ala
 245 250 255
 Glu Lys Glu Glu Leu
 260

<210> 81
 <211> 525
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Protein disulfide isomerase A2 precursor;
 Accession NO: as of 29 August 2003: Q13087

<400> 81
 Met Ser Arg Gln Leu Leu Pro Val Leu Leu Leu Leu Leu Arg Ala
 1 5 10 15
 Ser Cys Pro Trp Gly Gln Glu Gln Gly Ala Arg Ser Pro Ser Glu Glu
 20 25 30
 Pro Pro Glu Glu Glu Ile Pro Lys Glu Asp Gly Ile Leu Val Leu Ser
 35 40 45
 Arg His Thr Leu Gly Leu Ala Leu Arg Glu His Pro Ala Leu Leu Val
 50 55 60
 Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Gln Ala Leu Ala Pro Glu
 65 70 75 80
 Tyr Ser Lys Ala Ala Val Leu Ala Ala Glu Ser Met Val Val Thr
 85 90 95
 Leu Ala Lys Val Asp Gly Pro Ala Gln Arg Glu Leu Ala Glu Glu Phe
 100 105 110
 Gly Val Thr Glu Tyr Pro Thr Leu Lys Phe Phe Arg Asn Gly Asn Arg
 115 120 125
 Thr His Pro Glu Glu Tyr Thr Gly Pro Arg Asp Ala Glu Gly Ile Ala
 130 135 140
 Glu Trp Leu Arg Arg Arg Val Gly Pro Ser Ala Met Arg Leu Glu Asp
 145 150 155 160
 Glu Ala Ala Ala Gln Ala Leu Ile Gly Gly Arg Asp Leu Val Val Ile
 165 170 175
 Gly Phe Phe Gln Asp Leu Gln Asp Glu Asp Val Ala Thr Phe Leu Ala
 180 185 190
 Leu Ala Gln Asp Ala Leu Asp Met Thr Phe Gly Leu Thr Asp Arg Pro
 195 200 205
 Arg Leu Phe Gln Gln Phe Gly Leu Thr Lys Asp Thr Val Val Leu Phe
 210 215 220
 Lys Lys Phe Asp Glu Gly Arg Ala Asp Phe Pro Val Asp Glu Glu Leu
 225 230 235 240

Gly Leu Asp Leu Gly Asp Leu Ser Arg Phe Leu Val Thr His Ser Met
 245 250 255
 Arg Leu Val Thr Glu Phe Asn Ser Gln Thr Ser Ala Lys Ile Phe Ala
 260 265 270
 Ala Arg Ile Leu Asn His Leu Leu Leu Phe Val Asn Gln Thr Leu Ala
 275 280 285
 Ala His Arg Glu Leu Leu Ala Gly Phe Gly Glu Ala Ala Pro Arg Phe
 290 295 300
 Arg Gly Gln Val Leu Phe Val Val Val Asp Val Ala Ala Asp Asn Glu
 305 310 315 320
 His Val Leu Gln Tyr Phe Gly Leu Lys Ala Glu Ala Ala Pro Thr Leu
 325 330 335
 Arg Leu Val Asn Leu Glu Thr Thr Lys Lys Tyr Ala Pro Val Asp Gly
 340 345 350
 Gly Pro Val Thr Ala Ala Ser Ile Thr Ala Phe Cys His Ala Val Leu
 355 360 365
 Asn Gly Gln Val Lys Pro Tyr Leu Leu Ser Gln Glu Ile Pro Pro Asp
 370 375 380
 Trp Asp Gln Arg Pro Val Lys Thr Leu Val Gly Lys Asn Phe Glu Gln
 385 390 395 400
 Val Ala Phe Asp Glu Thr Lys Asn Val Phe Val Lys Phe Tyr Ala Pro
 405 410 415
 Trp Cys Thr His Cys Lys Glu Met Ala Pro Ala Trp Glu Ala Leu Ala
 420 425 430
 Glu Lys Tyr Gln Asp His Glu Asp Ile Ile Ile Ala Glu Leu Asp Ala
 435 440 445
 Thr Ala Asn Glu Leu Asp Ala Phe Ala Val His Gly Phe Pro Thr Leu
 450 455 460
 Lys Tyr Phe Pro Ala Gly Pro Gly Arg Lys Val Ile Glu Tyr Lys Ser
 465 470 475 480
 Thr Arg Asp Leu Glu Thr Phe Ser Lys Phe Leu Asp Asn Gly Gly Val
 485 490 495
 Leu Pro Thr Glu Glu Pro Pro Glu Glu Pro Ala Ala Pro Phe Pro Glu
 500 505 510
 Pro Pro Ala Asn Ser Thr Met Gly Ser Lys Glu Glu Leu
 515 520 525

<210> 82
 <211> 505
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Protein disulfide isomerase A3 precursor;
 Accession NO: as of 29 August 2003: P30101

<400> 82
 Met Arg Leu Arg Arg Leu Ala Leu Phe Pro Gly Val Ala Leu Leu Leu
 1 5 10 15
 Ala Ala Ala Arg Leu Ala Ala Ala Ser Asp Val Leu Glu Leu Thr Asp
 20 25 30
 Asp Asn Phe Glu Ser Arg Ile Ser Asp Thr Gly Ser Ala Gly Leu Met
 35 40 45
 Leu Val Glu Phe Phe Ala Pro Trp Cys Gly His Cys Lys Arg Leu Ala
 50 55 60
 Pro Glu Tyr Glu Ala Ala Ala Thr Arg Leu Lys Gly Ile Val Pro Leu
 65 70 75 80
 Ala Lys Val Asp Cys Thr Ala Asn Thr Asn Thr Cys Asn Lys Tyr Gly
 85 90 95
 Val Ser Gly Tyr Pro Thr Leu Lys Ile Phe Arg Asp Gly Glu Glu Ala
 100 105 110
 Gly Ala Tyr Asp Gly Pro Arg Thr Ala Asp Gly Ile Val Ser His Leu
 115 120 125
 Lys Lys Gln Ala Gly Pro Ala Ser Val Pro Leu Arg Thr Glu Glu Glu
 130 135 140
 Phe Lys Lys Phe Ile Ser Asp Lys Asp Ala Ser Ile Val Gly Phe Phe
 145 150 155 160
 Asp Asp Ser Phe Ser Glu Ala His Ser Glu Phe Leu Lys Ala Ala Ser
 165 170 175
 Asn Leu Arg Asp Asn Tyr Arg Phe Ala His Thr Asn Val Glu Ser Leu
 180 185 190
 Val Asn Glu Tyr Asp Asp Asn Gly Glu Gly Ile Ile Leu Phe Arg Pro
 195 200 205
 Ser His Leu Thr Asn Lys Phe Glu Asp Lys Thr Val Ala Tyr Thr Glu
 210 215 220

Gln Lys Met Thr Ser Gly Lys Ile Lys Lys Phe Ile Gln Glu Asn Ile
 225 230 235 240
 Phe Gly Ile Cys Pro His Met Thr Glu Asp Asn Lys Asp Leu Ile Gln
 245 250 255
 Gly Lys Asp Leu Leu Ile Ala Tyr Tyr Asp Val Asp Tyr Glu Lys Asn
 260 265 270
 Ala Lys Gly Ser Asn Tyr Trp Arg Asn Arg Val Met Met Val Ala Lys
 275 280 285
 Lys Phe Leu Asp Ala Gly His Lys Leu Asn Phe Ala Val Ala Ser Arg
 290 295 300
 Lys Thr Phe Ser His Glu Leu Ser Asp Phe Gly Leu Glu Ser Thr Ala
 305 310 315 320
 Gly Glu Ile Pro Val Val Ala Ile Arg Thr Ala Lys Gly Glu Lys Phe
 325 330 335
 Val Met Gln Glu Glu Phe Ser Arg Asp Gly Lys Ala Leu Glu Arg Phe
 340 345 350
 Leu Gln Asp Tyr Phe Asp Gly Asn Leu Lys Arg Tyr Leu Lys Ser Glu
 355 360 365
 Pro Ile Pro Glu Ser Asn Asp Gly Pro Val Lys Val Val Val Ala Glu
 370 375 380
 Asn Phe Asp Glu Ile Val Asn Asn Glu Asn Lys Asp Val Leu Ile Glu
 385 390 395 400
 Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Asn Leu Glu Pro Lys Tyr
 405 410 415
 Lys Glu Leu Gly Glu Lys Leu Ser Lys Asp Pro Asn Ile Val Ile Ala
 420 425 430
 Lys Met Asp Ala Thr Ala Asn Asp Val Pro Ser Pro Tyr Glu Val Arg
 435 440 445
 Gly Phe Pro Thr Ile Tyr Phe Ser Pro Ala Asn Lys Lys Leu Asn Pro
 450 455 460
 Lys Lys Tyr Glu Gly Gly Arg Glu Leu Ser Asp Phe Ile Ser Tyr Leu
 465 470 475 480
 Gln Arg Glu Ala Thr Asn Pro Pro Val Ile Gln Glu Glu Lys Pro Lys
 485 490 495
 Lys Lys Lys Lys Ala Gln Glu Asp Leu
 500 505

<210> 83
 <211> 374
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Alcohol dehydrogenase beta chain;
 Accession NO: as of 29 August 2003: P00325

<400> 83
 Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala Ala Val Leu Trp Glu
 1 5 10 15
 Val Lys Lys Pro Phe Ser Ile Glu Asp Val Glu Val Ala Pro Pro Lys
 20 25 30
 Ala Tyr Glu Val Arg Ile Lys Met Val Ala Val Gly Ile Cys Arg Thr
 35 40 45
 Asp Asp His Val Val Ser Gly Asn Leu Val Thr Pro Leu Pro Val Ile
 50 55 60
 Leu Gly His Glu Ala Ala Gly Ile Val Glu Ser Val Gly Glu Gly Val
 65 70 75 80
 Thr Thr Val Lys Pro Gly Asp Lys Val Ile Pro Leu Phe Thr Pro Gln
 85 90 95
 Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu Ser Asn Tyr Cys Leu
 100 105 110
 Lys Asn Asp Leu Gly Asn Pro Arg Gly Thr Leu Gln Asp Gly Thr Arg
 115 120 125
 Arg Phe Thr Cys Arg Gly Lys Pro Ile His His Phe Leu Gly Thr Ser
 130 135 140
 Thr Phe Ser Gln Tyr Thr Val Val Asp Glu Asn Ala Val Ala Lys Ile
 145 150 155 160
 Asp Ala Ala Ser Pro Leu Glu Lys Val Cys Leu Ile Gly Cys Gly Phe
 165 170 175
 Ser Thr Gly Tyr Gly Ser Ala Val Asn Val Ala Lys Val Thr Pro Gly
 180 185 190
 Ser Thr Cys Ala Val Phe Gly Leu Gly Gly Val Gly Leu Ser Ala Val
 195 200 205
 Met Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile Ile Ala Val Asp Ile
 210 215 220

Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu Gly Ala Thr Glu Cys
 225 230 235 240
 Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln Glu Val Leu Lys Glu
 245 250 255
 Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Val Ile Gly Arg Leu
 260 265 270
 Asp Thr Met Met Ala Ser Leu Leu Cys Cys His Glu Ala Cys Gly Thr
 275 280 285
 Ser Val Ile Val Gly Val Pro Pro Ala Ser Gln Asn Leu Ser Ile Asn
 290 295 300
 Pro Met Leu Leu Leu Thr Gly Arg Thr Trp Lys Gly Ala Val Tyr Gly
 305 310 315 320
 Gly Phe Lys Ser Lys Glu Gly Ile Pro Lys Leu Val Ala Asp Phe Met
 325 330 335
 Ala Lys Lys Phe Ser Leu Asp Ala Leu Ile Thr His Val Leu Pro Phe
 340 345 350
 Glu Lys Ile Asn Glu Gly Phe Asp Leu Leu His Ser Gly Lys Ser Ile
 355 360 365
 Arg Thr Val Leu Thr Phe
 370

<210> 84
 <211> 241
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Glutathione transferase omega 1;
 Accession NO: as of 29 August 2003: P78417

<400> 84
 Met Ser Gly Glu Ser Ala Arg Ser Leu Gly Lys Gly Ser Ala Pro Pro
 1 5 10 15
 Gly Pro Val Pro Glu Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys
 20 25 30
 Pro Phe Ala Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg
 35 40 45
 His Glu Val Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe
 50 55 60

Lys Lys Asn Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly
 65 70 75 80
 Gln Leu Ile Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala
 85 90 95
 Tyr Pro Gly Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys
 100 105 110
 Gln Lys Met Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly
 115 120 125
 Ser Phe Ile Arg Ser Gln Asn Lys Glu Asp Tyr Ala Gly Leu Lys Glu
 130 135 140
 Glu Phe Arg Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys
 145 150 155 160
 Lys Thr Thr Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu
 165 170 175
 Ile Trp Pro Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys
 180 185 190
 Val Asp His Thr Pro Lys Leu Lys Leu Trp Met Ala Ala Met Lys Glu
 195 200 205
 Asp Pro Thr Val Ser Ala Leu Leu Thr Ser Glu Lys Asp Trp Gln Gly
 210 215 220
 Phe Leu Glu Leu Tyr Leu Gln Asn Ser Pro Glu Ala Cys Asp Tyr Gly
 225 230 235 240
 Leu

<210> 85

<211> 999

<212> PRT

<213> Homo sapiens

<220>

<223> 150 kDa oxygen-regulated protein precursor (Orp150);
 Accession NO: as of 29 August 2003: Q9Y4L1

<400> 85

Met Ala Asp Lys Val Arg Arg Gln Arg Pro Arg Arg Arg Val Cys Trp
 1 5 10 15
 Ala Leu Val Ala Val Leu Leu Ala Asp Leu Leu Ala Leu Ser Asp Thr
 20 25 30

Leu Ala Val Met Ser Val Asp Leu Gly Ser Glu Ser Met Lys Val Ala
 35 40 45
 Ile Val Lys Pro Gly Val Pro Met Glu Ile Val Leu Asn Lys Glu Ser
 50 55 60
 Arg Arg Lys Thr Pro Val Ile Val Thr Leu Lys Glu Asn Glu Arg Phe
 65 70 75 80
 Phe Gly Asp Ser Ala Ala Ser Met Ala Ile Lys Asn Pro Lys Ala Thr
 85 90 95
 Leu Arg Tyr Phe Gln His Leu Leu Gly Lys Gln Ala Asp Asn Pro His
 100 105 110
 Val Ala Leu Tyr Gln Ala Arg Phe Pro Glu His Glu Leu Thr Phe Asp
 115 120 125
 Pro Gln Arg Gln Thr Val His Phe Gln Ile Ser Ser Gln Leu Gln Phe
 130 135 140
 Ser Pro Glu Glu Val Leu Gly Met Val Leu Asn Tyr Ser Arg Ser Leu
 145 150 155 160
 Ala Glu Asp Phe Ala Glu Gln Pro Ile Lys Asp Ala Val Ile Thr Val
 165 170 175
 Pro Val Phe Phe Asn Gln Ala Glu Arg Arg Ala Val Leu Gln Ala Ala
 180 185 190
 Arg Met Ala Gly Leu Lys Val Leu Gln Leu Ile Asn Asp Asn Thr Ala
 195 200 205
 Thr Ala Leu Ser Tyr Gly Val Phe Arg Arg Lys Asp Ile Asn Thr Thr
 210 215 220
 Ala Gln Asn Ile Met Phe Tyr Asp Met Gly Ser Gly Ser Thr Val Cys
 225 230 235 240
 Thr Ile Val Thr Tyr Gln Met Val Lys Thr Lys Glu Ala Gly Met Gln
 245 250 255
 Pro Gln Leu Gln Ile Arg Gly Val Gly Phe Asp Arg Thr Leu Gly Gly
 260 265 270
 Leu Glu Met Glu Leu Arg Leu Arg Glu Arg Leu Ala Gly Leu Phe Asn
 275 280 285
 Glu Gln Arg Lys Gly Gln Arg Ala Lys Asp Val Arg Glu Asn Pro Arg
 290 295 300
 Ala Met Ala Lys Leu Leu Arg Glu Ala Asn Arg Leu Lys Thr Val Leu
 305 310 315 320

Ser Ala Asn Ala Asp His Met Ala Gln Ile Glu Gly Leu Met Asp Asp
 325 330 335
 Val Asp Phe Lys Ala Lys Val Thr Arg Val Glu Phe Glu Glu Leu Cys
 340 345 350
 Ala Asp Leu Phe Glu Arg Val Pro Gly Pro Val Gln Gln Ala Leu Gln
 355 360 365
 Ser Ala Glu Met Ser Leu Asp Glu Ile Glu Gln Val Ile Leu Val Gly
 370 375 380
 Gly Ala Thr Arg Val Pro Arg Val Gln Glu Val Leu Leu Lys Ala Val
 385 390 395 400
 Gly Lys Glu Glu Leu Gly Lys Asn Ile Asn Ala Asp Glu Ala Ala Ala
 405 410 415
 Met Gly Ala Val Tyr Gln Ala Ala Ala Leu Ser Lys Ala Phe Lys Val
 420 425 430
 Lys Pro Phe Val Val Arg Asp Ala Val Val Tyr Pro Ile Leu Val Glu
 435 440 445
 Phe Thr Arg Glu Val Glu Glu Glu Pro Gly Ile His Ser Leu Lys His
 450 455 460
 Asn Lys Arg Val Leu Phe Ser Arg Met Gly Pro Tyr Pro Gln Arg Lys
 465 470 475 480
 Val Ile Thr Phe Asn Arg Tyr Ser His Asp Phe Asn Phe His Ile Asn
 485 490 495
 Tyr Gly Asp Leu Gly Phe Leu Gly Pro Glu Asp Leu Arg Val Phe Gly
 500 505 510
 Ser Gln Asn Leu Thr Thr Val Lys Leu Lys Gly Val Gly Asp Ser Phe
 515 520 525
 Lys Lys Tyr Pro Asp Tyr Glu Ser Lys Gly Ile Lys Ala His Phe Asn
 530 535 540
 Leu Asp Glu Ser Gly Val Leu Ser Leu Asp Arg Val Glu Ser Val Phe
 545 550 555 560
 Glu Thr Leu Val Glu Asp Ser Ala Glu Glu Glu Ser Thr Leu Thr Lys
 565 570 575
 Leu Gly Asn Thr Ile Ser Ser Leu Phe Gly Gly Gly Thr Thr Pro Asp
 580 585 590
 Ala Lys Glu Asn Gly Thr Asp Thr Val Gln Glu Glu Glu Glu Ser Pro
 595 600 605

Ala Glu Gly Ser Lys Asp Glu Pro Gly Glu Gln Val Glu Leu Lys Glu
 610 615 620
 Glu Ala Glu Ala Pro Val Glu Asp Gly Ser Gln Pro Pro Pro Pro Glu
 625 630 635 640
 Pro Lys Gly Asp Ala Thr Pro Glu Gly Glu Lys Ala Thr Glu Lys Glu
 645 650 655
 Asn Gly Asp Lys Ser Glu Ala Gln Lys Pro Ser Glu Lys Ala Glu Ala
 660 665 670
 Gly Pro Glu Gly Val Ala Pro Ala Pro Glu Gly Glu Lys Lys Gln Lys
 675 680 685
 Pro Ala Arg Lys Arg Arg Met Val Glu Glu Ile Gly Val Glu Leu Val
 690 695 700
 Val Leu Asp Leu Pro Asp Leu Pro Glu Asp Lys Leu Ala Gln Ser Val
 705 710 715 720
 Gln Lys Leu Gln Asp Leu Thr Leu Arg Asp Leu Glu Lys Gln Glu Arg
 725 730 735
 Glu Lys Ala Ala Asn Ser Leu Glu Ala Phe Ile Phe Glu Thr Gln Asp
 740 745 750
 Lys Leu Tyr Gln Pro Glu Tyr Gln Glu Val Ser Thr Glu Glu Gln Arg
 755 760 765
 Glu Glu Ile Ser Gly Lys Leu Ser Ala Ala Ser Thr Trp Leu Glu Asp
 770 775 780
 Glu Gly Val Gly Ala Thr Thr Val Met Leu Lys Glu Lys Leu Ala Glu
 785 790 795 800
 Leu Arg Lys Leu Cys Gln Gly Leu Phe Phe Arg Val Glu Glu Arg Lys
 805 810 815
 Lys Trp Pro Glu Arg Leu Ser Ala Leu Asp Asn Leu Leu Asn His Ser
 820 825 830
 Ser Met Phe Leu Lys Gly Ala Arg Leu Ile Pro Glu Met Asp Gln Ile
 835 840 845
 Phe Thr Glu Val Glu Met Thr Thr Leu Glu Lys Val Ile Asn Glu Thr
 850 855 860
 Trp Ala Trp Lys Asn Ala Thr Leu Ala Glu Gln Ala Lys Leu Pro Ala
 865 870 875 880
 Thr Glu Lys Pro Val Leu Leu Ser Lys Asp Ile Glu Ala Lys Met Met
 885 890 895

Ala Leu Asp Arg Glu Val Gln Tyr Leu Leu Asn Lys Ala Lys Phe Thr
 900 905 910

Lys Pro Arg Pro Arg Pro Lys Asp Lys Asn Gly Thr Arg Ala Glu Pro
 915 920 925

Pro Leu Asn Ala Ser Ala Ser Asp Gln Gly Glu Lys Val Ile Pro Pro
 930 935 940

Ala Gly Gln Thr Glu Asp Ala Glu Pro Ile Ser Glu Pro Glu Lys Val
 945 950 955 960

Glu Thr Gly Ser Glu Pro Gly Asp Thr Glu Pro Leu Glu Leu Gly Gly
 965 970 975

Pro Gly Ala Glu Pro Glu Gln Lys Glu Gln Ser Thr Gly Gln Lys Arg
 980 985 990

Pro Leu Lys Asn Asp Glu Leu
 995

<210> 86

<211> 271

<212> PRT

<213> Homo sapiens

<220>

<223> Peroxiredoxin 4; Accession NO: as of
 29 August 2003: Q13162

<400> 86

Met Glu Ala Leu Pro Leu Leu Ala Ala Thr Thr Pro Asp His Gly Arg
 1 5 10 15

His Arg Arg Leu Leu Leu Leu Pro Leu Leu Leu Phe Leu Leu Pro Ala
 20 25 30

Gly Ala Val Gln Gly Trp Glu Thr Glu Glu Arg Pro Arg Thr Arg Glu
 35 40 45

Glu Glu Cys His Phe Tyr Ala Gly Gly Gln Val Tyr Pro Gly Glu Ala
 50 55 60

Ser Arg Val Ser Val Ala Asp His Ser Leu His Leu Ser Lys Ala Lys
 65 70 75 80

Ile Ser Lys Pro Ala Pro Tyr Trp Glu Gly Thr Ala Val Ile Asp Gly
 85 90 95

Glu Phe Lys Glu Leu Lys Leu Thr Asp Tyr Arg Gly Lys Tyr Leu Val
 100 105 110

<220>
<223> MAWD binding protein; Accession NO: as of
29 August 2003: P30039

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<400> 87
Met Lys Leu Pro Ile Phe Ile Ala Asp Ala Phe Thr Ala Arg Ala Phe
 1                               5 10 15
Arg Gly Asn Pro Ala Ala Val Cys Leu Leu Glu Asn Glu Leu Asp Glu
 20 25 30
Asp Met His Gln Lys Ile Ala Arg Glu Met Asn Leu Ser Glu Thr Ala
 35 40 45
Phe Ile Arg Lys Leu His Pro Thr Asp Asn Phe Ala Gln Ser Ser Cys
 50 55 60

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Phe Gly Leu Arg Trp Phe Thr Pro Ala Ser Glu Val Pro Leu Cys Gly
 65 70 75 80
 His Ala Thr Leu Ala Ser Ala Ala Val Leu Phe His Lys Ile Lys Asn
 85 90 95
 Met Asn Ser Thr Leu Thr Phe Val Thr Leu Ser Gly Glu Leu Arg Ala
 100 105 110
 Arg Arg Ala Glu Asp Gly Ile Val Leu Asp Leu Pro Leu Tyr Pro Ala
 115 120 125
 His Pro Gln Asp Phe His Glu Val Glu Asp Leu Ile Lys Thr Ala Ile
 130 135 140
 Gly Asn Thr Leu Val Gln Asp Ile Cys Tyr Ser Pro Asp Thr Gln Lys
 145 150 155 160
 Leu Leu Val Arg Leu Ser Asp Val Tyr Asn Arg Ser Phe Leu Glu Asn
 165 170 175
 Leu Lys Val Asn Thr Glu Asn Leu Leu Gln Val Glu Asn Thr Gly Lys
 180 185 190
 Val Lys Gly Leu Ile Leu Thr Leu Lys Gly Glu Pro Gly Gly Gln Thr
 195 200 205
 Gln Ala Phe Asp Phe Tyr Ser Arg Tyr Phe Ala Pro Trp Val Gly Val
 210 215 220
 Ala Glu Asp Pro Val Thr Gly Ser Ala His Ala Val Leu Ser Ser Tyr
 225 230 235 240
 Trp Ser Gln His Leu Gly Lys Lys Glu Met His Ala Phe Gln Cys Ser
 245 250 255
 His Arg Gly Gly Glu Leu Gly Ile Ser Leu Arg Pro Asp Gly Arg Val
 260 265 270
 Asp Ile Arg Gly Gly Ala Ala Val Val Leu Glu Gly Thr Leu Thr Ala
 275 280 285

<210> 88

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<223> Alpha-amylase 2B precursor;

Accession NO: as of 29 August 2003: P19961

<400> 88

Met Lys Phe Phe Leu Leu Leu Phe Thr Ile Gly Phe Cys Trp Ala Gln
 1 5 10 15
 Tyr Ser Pro Asn Thr Gln Gln Gly Arg Thr Ser Ile Val His Leu Phe
 20 25 30
 Glu Trp Arg Trp Val Asp Ile Ala Leu Glu Cys Glu Arg Tyr Leu Ala
 35 40 45
 Pro Lys Gly Phe Gly Gly Val Gln Val Ser Pro Pro Asn Glu Asn Val
 50 55 60
 Ala Ile His Asn Pro Phe Arg Pro Trp Trp Glu Arg Tyr Gln Pro Val
 65 70 75 80
 Ser Tyr Lys Leu Cys Thr Arg Ser Gly Asn Glu Asp Glu Phe Arg Asn
 85 90 95
 Met Val Thr Arg Cys Asn Asn Val Gly Val Arg Ile Tyr Val Asp Ala
 100 105 110
 Val Ile Asn His Met Ser Gly Asn Ala Val Ser Ala Gly Thr Ser Ser
 115 120 125
 Thr Cys Gly Ser Tyr Phe Asn Pro Gly Ser Arg Asp Phe Pro Ala Val
 130 135 140
 Pro Tyr Ser Gly Trp Asp Phe Asn Asp Gly Lys Cys Lys Thr Gly Ser
 145 150 155 160
 Gly Asp Ile Glu Asn Tyr Asn Asp Ala Thr Gln Val Arg Asp Cys Arg
 165 170 175
 Leu Val Gly Leu Leu Asp Leu Ala Leu Glu Lys Asp Tyr Val Arg Ser
 180 185 190
 Lys Ile Ala Glu Tyr Met Asn His Leu Ile Asp Ile Gly Val Ala Gly
 195 200 205
 Phe Arg Leu Asp Ala Ser Lys His Met Trp Pro Gly Asp Ile Lys Ala
 210 215 220
 Ile Leu Asp Lys Leu His Asn Leu Asn Ser Asn Trp Phe Pro Ala Gly
 225 230 235 240
 Ser Lys Pro Phe Ile Tyr Gln Glu Val Ile Asp Leu Gly Gly Glu Pro
 245 250 255
 Ile Lys Ser Ser Asp Tyr Phe Gly Asn Gly Arg Val Thr Glu Phe Lys
 260 265 270
 Tyr Gly Ala Lys Leu Gly Thr Val Ile Arg Lys Trp Asn Gly Glu Lys
 275 280 285

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Met Ser Tyr Leu Lys Asn Trp Gly Glu Gly Trp Gly Phe Met Pro Ser
290                295                300

Asp Arg Ala Leu Val Phe Val Asp Asn His Asp Asn Gln Arg Gly His
305                310                315                320

Gly Ala Gly Gly Ala Ser Ile Leu Thr Phe Trp Asp Ala Arg Leu Tyr
                325                330                335

Lys Met Ala Val Gly Phe Met Leu Ala His Pro Tyr Gly Phe Thr Arg
                340                345                350

Val Met Ser Ser Tyr Arg Trp Pro Arg Gln Phe Gln Asn Gly Asn Asp
                355                360                365

Val Asn Asp Trp Val Gly Pro Pro Asn Asn Asn Gly Val Ile Lys Glu
370                375                380

Val Thr Ile Asn Pro Asp Thr Thr Cys Gly Asn Asp Trp Val Cys Glu
385                390                395                400

His Arg Trp Arg Gln Ile Arg Asn Met Val Asn Phe Arg Asn Val Val
                405                410                415

Asp Gly Gln Pro Phe Thr Asn Trp Tyr Asp Asn Gly Ser Asn Gln Val
                420                425                430

Ala Phe Gly Arg Gly Asn Arg Gly Phe Ile Val Phe Asn Asn Asp Asp
435                440                445

Trp Thr Phe Ser Leu Thr Leu Gln Thr Gly Leu Pro Ala Gly Thr Tyr
450                455                460

Cys Asp Val Ile Ser Gly Asp Lys Ile Asn Gly Asn Cys Thr Gly Ile
465                470                475                480

Lys Ile Tyr Val Ser Asp Asp Gly Lys Ala His Phe Ser Ile Ser Asn
                485                490                495

Ser Ala Glu Asp Pro Phe Ile Ala Ile His Ala Glu Ser Lys Leu
                500                505                510

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<210> 89

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<223> Alpha-amylase, pancreatic precursor;

Accession NO: as of 29 August 2003: P04746

<400> 89

Met	Lys	Phe	Phe	Leu	Leu	Leu	Phe	Thr	Ile	Gly	Phe	Cys	Trp	Ala	Gln	
1				5					10					15		
Tyr	Ser	Pro	Asn	Thr	Gln	Gln	Gly	Arg	Thr	Ser	Ile	Val	His	Leu	Phe	
			20					25					30			
Glu	Trp	Arg	Trp	Val	Asp	Ile	Ala	Leu	Glu	Cys	Glu	Arg	Tyr	Leu	Ala	
		35					40					45				
Pro	Lys	Gly	Phe	Gly	Gly	Val	Gln	Val	Ser	Pro	Pro	Asn	Glu	Asn	Val	
	50					55					60					
Ala	Ile	Tyr	Asn	Pro	Phe	Arg	Pro	Trp	Trp	Glu	Arg	Tyr	Gln	Pro	Val	
65					70					75					80	
Ser	Tyr	Lys	Leu	Cys	Thr	Arg	Ser	Gly	Asn	Glu	Asp	Glu	Phe	Arg	Asn	
			85						90					95		
Met	Val	Thr	Arg	Cys	Asn	Asn	Val	Gly	Val	Arg	Ile	Tyr	Val	Asp	Ala	
			100					105						110		
Val	Ile	Asn	His	Met	Cys	Gly	Asn	Ala	Val	Ser	Ala	Gly	Thr	Ser	Ser	
		115					120					125				
Thr	Cys	Gly	Ser	Tyr	Phe	Asn	Pro	Gly	Ser	Arg	Asp	Phe	Pro	Ala	Val	
		130				135					140					
Pro	Tyr	Ser	Gly	Trp	Asp	Phe	Asn	Asp	Gly	Lys	Cys	Lys	Thr	Gly	Ser	
145					150					155					160	
Gly	Asp	Ile	Glu	Asn	Tyr	Asn	Asp	Ala	Thr	Gln	Val	Arg	Asp	Cys	Arg	
				165					170					175		
Leu	Thr	Gly	Leu	Leu	Asp	Leu	Ala	Leu	Glu	Lys	Asp	Tyr	Val	Arg	Ser	
			180					185					190			
Lys	Ile	Ala	Glu	Tyr	Met	Asn	His	Leu	Ile	Asp	Ile	Gly	Val	Ala	Gly	
		195					200					205				
Phe	Arg	Leu	Asp	Ala	Ser	Lys	His	Met	Trp	Pro	Gly	Asp	Ile	Lys	Ala	
	210					215					220					
Ile	Leu	Asp	Lys	Leu	His	Asn	Leu	Asn	Ser	Asn	Trp	Phe	Pro	Ala	Gly	
225					230					235					240	
Ser	Lys	Pro	Phe	Ile	Tyr	Gln	Glu	Val	Ile	Asp	Leu	Gly	Gly	Glu	Pro	
				245					250					255		
Ile	Lys	Ser	Ser	Asp	Tyr	Phe	Gly	Asn	Gly	Arg	Val	Thr	Glu	Phe	Lys	
			260					265					270			
Tyr	Gly	Ala	Lys	Leu	Gly	Thr	Val	Ile	Arg	Lys	Trp	Asn	Gly	Glu	Lys	
		275					280					285				

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Met Ser Tyr Leu Lys Asn Trp Gly Glu Gly Trp Gly Phe Val Pro Ser
290                295                300

Asp Arg Ala Leu Val Phe Val Asp Asn His Asp Asn Gln Arg Gly His
305                310                315                320

Gly Ala Gly Gly Ala Ser Ile Leu Thr Phe Trp Asp Ala Arg Leu Tyr
                325                330                335

Lys Met Ala Val Gly Phe Met Leu Ala His Pro Tyr Gly Phe Thr Arg
                340                345                350

Val Met Ser Ser Tyr Arg Trp Pro Arg Gln Phe Gln Asn Gly Asn Asp
                355                360                365

Val Asn Asp Trp Val Gly Pro Pro Asn Asn Asn Gly Val Ile Lys Glu
370                375                380

Val Thr Ile Asn Pro Asp Thr Thr Cys Gly Asn Asp Trp Val Cys Glu
385                390                395                400

His Arg Trp Arg Gln Ile Arg Asn Met Val Ile Phe Arg Asn Val Val
                405                410                415

Asp Gly Gln Pro Phe Thr Asn Trp Tyr Asp Asn Gly Ser Asn Gln Val
                420                425                430

Ala Phe Gly Arg Gly Asn Arg Gly Phe Ile Val Phe Asn Asn Asp Asp
435                440                445

Trp Ser Phe Ser Leu Thr Leu Gln Thr Gly Leu Pro Ala Gly Thr Tyr
450                455                460

Cys Asp Val Ile Ser Gly Asp Lys Ile Asn Gly Asn Cys Thr Gly Ile
465                470                475                480

Lys Ile Tyr Val Ser Asp Asp Gly Lys Ala His Phe Ser Ile Ser Asn
                485                490                495

Ser Ala Glu Asp Pro Phe Ile Ala Ile His Ala Glu Ser Lys Leu
                500                505                510

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<210> 90

<211> 553

<212> PRT

<213> Homo sapiens

<220>

<223> ATP synthase alpha chain;

Accession NO: as of 29 August 2003: P25705

<400> 90.

Met Leu Ser Val Arg Val Ala Ala Ala Val Val Arg Ala Leu Pro Arg
 1 5 10 15
 Arg Ala Gly Leu Val Ser Arg Asn Ala Leu Gly Ser Ser Phe Ile Ala
 20 25 30
 Ala Arg Asn Phe His Ala Ser Asn Thr His Leu Gln Lys Thr Gly Thr
 35 40 45
 Ala Glu Met Ser Ser Ile Leu Glu Glu Arg Ile Leu Gly Ala Asp Thr
 50 55 60
 Ser Val Asp Leu Glu Glu Thr Gly Arg Val Leu Ser Ile Gly Asp Gly
 65 70 75 80
 Ile Ala Arg Val His Gly Leu Arg Asn Val Gln Ala Glu Glu Met Val
 85 90 95
 Glu Phe Ser Ser Gly Leu Lys Gly Met Ser Leu Asn Leu Glu Pro Asp
 100 105 110
 Asn Val Gly Val Val Val Phe Gly Asn Asp Lys Leu Ile Lys Glu Gly
 115 120 125
 Asp Ile Val Lys Arg Thr Gly Ala Ile Val Asp Val Pro Val Gly Glu
 130 135 140
 Glu Leu Leu Gly Arg Val Val Asp Ala Leu Gly Asn Ala Ile Asp Gly
 145 150 155 160
 Lys Gly Pro Ile Gly Ser Lys Thr Arg Arg Arg Val Gly Leu Lys Ala
 165 170 175
 Pro Gly Ile Ile Pro Arg Ile Ser Val Arg Glu Pro Met Gln Thr Gly
 180 185 190
 Ile Lys Ala Val Asp Ser Leu Val Pro Ile Gly Arg Gly Gln Arg Glu
 195 200 205
 Leu Ile Ile Gly Asp Arg Gln Thr Gly Lys Thr Ser Ile Ala Ile Asp
 210 215 220
 Thr Ile Ile Asn Gln Lys Arg Phe Asn Asp Gly Ser Asp Glu Lys Lys
 225 230 235 240
 Lys Leu Tyr Cys Ile Tyr Val Ala Ile Gly Gln Lys Arg Ser Thr Val
 245 250 255
 Ala Gln Leu Val Lys Arg Leu Thr Asp Ala Asp Ala Met Lys Tyr Thr
 260 265 270
 Ile Val Val Ser Ala Thr Ala Ser Asp Ala Ala Pro Leu Gln Tyr Leu
 275 280 285

Ala Pro Tyr Ser Gly Cys Ser Met Gly Glu Tyr Phe Arg Asp Asn Gly
 290 295 300
 Lys His Ala Leu Ile Ile Tyr Asp Asp Leu Ser Lys Gln Ala Val Ala
 305 310 315 320
 Tyr Arg Gln Met Ser Leu Leu Leu Arg Arg Pro Pro Gly Arg Glu Ala
 325 330 335
 Tyr Pro Gly Asp Val Phe Tyr Leu His Ser Arg Leu Leu Glu Arg Ala
 340 345 350
 Ala Lys Met Asn Asp Ala Phe Gly Gly Gly Ser Leu Thr Ala Leu Pro
 355 360 365
 Val Ile Glu Thr Gln Ala Gly Asp Val Ser Ala Tyr Ile Pro Thr Asn
 370 375 380
 Val Ile Ser Ile Thr Asp Gly Gln Ile Phe Leu Glu Thr Glu Leu Phe
 385 390 395 400
 Tyr Lys Gly Ile Arg Pro Ala Ile Asn Val Gly Leu Ser Val Ser Arg
 405 410 415
 Val Gly Ser Ala Ala Gln Thr Arg Ala Met Lys Gln Val Ala Gly Thr
 420 425 430
 Met Lys Leu Glu Leu Ala Gln Tyr Arg Glu Val Ala Ala Phe Ala Gln
 435 440 445
 Phe Gly Ser Asp Leu Asp Ala Ala Thr Gln Gln Leu Leu Ser Arg Gly
 450 455 460
 Val Arg Leu Thr Glu Leu Leu Lys Gln Gly Gln Tyr Ser Pro Met Ala
 465 470 475 480
 Ile Glu Glu Gln Val Ala Val Ile Tyr Ala Gly Val Arg Gly Tyr Leu
 485 490 495
 Asp Lys Leu Glu Pro Ser Lys Ile Thr Lys Phe Glu Asn Ala Phe Leu
 500 505 510
 Ser His Val Val Ser Gln His Gln Ala Leu Leu Gly Thr Ile Arg Ala
 515 520 525
 Asp Gly Lys Ile Ser Glu Gln Ser Asp Ala Lys Leu Lys Glu Ile Val
 530 535 540
 Thr Asn Phe Leu Ala Gly Phe Glu Ala
 545 550

<210> 91
 <211> 742
 <212> PRT
 <213> Homo sapiens

<220>

<223> Bile-salt-activated lipase precursor;
 Accession NO: as of 29 August 2003: P19835

<400> 91

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Met Gly Arg Leu Gln Leu Val Val Leu Gly Leu Thr Cys Cys Trp Ala
1           5           10           15

Val Ala Ser Ala Ala Lys Leu Gly Ala Val Tyr Thr Glu Gly Gly Phe
          20           25           30

Val Glu Gly Val Asn Lys Lys Leu Gly Leu Leu Gly Asp Ser Val Asp
          35           40           45

Ile Phe Lys Gly Ile Pro Phe Ala Ala Pro Thr Lys Ala Leu Glu Asn
          50           55           60

Pro Gln Pro His Pro Gly Trp Gln Gly Thr Leu Lys Ala Lys Asn Phe
65           70           75           80

Lys Lys Arg Cys Leu Gln Ala Thr Ile Thr Gln Asp Ser Thr Tyr Gly
          85           90           95

Asp Glu Asp Cys Leu Tyr Leu Asn Ile Trp Val Pro Gln Gly Arg Lys
          100          105          110

Gln Val Ser Arg Asp Leu Pro Val Met Ile Trp Ile Tyr Gly Gly Ala
          115          120          125

Phe Leu Met Gly Ser Gly His Gly Ala Asn Phe Leu Asn Asn Tyr Leu
          130          135          140

Tyr Asp Gly Glu Glu Ile Ala Thr Arg Gly Asn Val Ile Val Val Thr
145          150          155          160

Phe Asn Tyr Arg Val Gly Pro Leu Gly Phe Leu Ser Thr Gly Asp Ala
          165          170          175

Asn Leu Pro Gly Asn Tyr Gly Leu Arg Asp Gln His Met Ala Ile Ala
          180          185          190

Trp Val Lys Arg Asn Ile Ala Ala Phe Gly Gly Asp Pro Asn Asn Ile
          195          200          205

Thr Leu Phe Gly Glu Ser Ala Gly Gly Ala Ser Val Ser Leu Gln Thr
210          215          220

Leu Ser Pro Tyr Asn Lys Gly Leu Ile Arg Arg Ala Ile Ser Gln Ser
225          230          235          240

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Gly	Val	Ala	Leu	Ser	Pro	Trp	Val	Ile	Gln	Lys	Asn	Pro	Leu	Phe	Trp
				245					250					255	
Ala	Lys	Lys	Val	Ala	Glu	Lys	Val	Gly	Cys	Pro	Val	Gly	Asp	Ala	Ala
			260					265					270		
Arg	Met	Ala	Gln	Cys	Leu	Lys	Val	Thr	Asp	Pro	Arg	Ala	Leu	Thr	Leu
		275					280					285			
Ala	Tyr	Lys	Val	Pro	Leu	Ala	Gly	Leu	Glu	Tyr	Pro	Met	Leu	His	Tyr
	290					295					300				
Val	Gly	Phe	Val	Pro	Val	Ile	Asp	Gly	Asp	Phe	Ile	Pro	Ala	Asp	Pro
305					310					315					320
Ile	Asn	Leu	Tyr	Ala	Asn	Ala	Ala	Asp	Ile	Asp	Tyr	Ile	Ala	Gly	Thr
				325					330					335	
Asn	Asn	Met	Asp	Gly	His	Ile	Phe	Ala	Ser	Ile	Asp	Met	Pro	Ala	Ile
			340					345					350		
Asn	Lys	Gly	Asn	Lys	Lys	Val	Thr	Glu	Glu	Asp	Phe	Tyr	Lys	Leu	Val
		355					360					365			
Ser	Glu	Phe	Thr	Ile	Thr	Lys	Gly	Leu	Arg	Gly	Ala	Lys	Thr	Thr	Phe
	370					375					380				
Asp	Val	Tyr	Thr	Glu	Ser	Trp	Ala	Gln	Asp	Pro	Ser	Gln	Glu	Asn	Lys
385					390					395					400
Lys	Lys	Thr	Val	Val	Asp	Phe	Glu	Thr	Asp	Val	Leu	Phe	Leu	Val	Pro
				405					410					415	
Thr	Glu	Ile	Ala	Leu	Ala	Gln	His	Arg	Ala	Asn	Ala	Lys	Ser	Ala	Lys
			420					425					430		
Thr	Tyr	Ala	Tyr	Leu	Phe	Ser	His	Pro	Ser	Arg	Met	Pro	Val	Tyr	Pro
		435					440					445			
Lys	Trp	Val	Gly	Ala	Asp	His	Ala	Asp	Asp	Ile	Gln	Tyr	Val	Phe	Gly
	450					455					460				
Lys	Pro	Phe	Ala	Thr	Pro	Thr	Gly	Tyr	Arg	Pro	Gln	Asp	Arg	Thr	Val
465					470					475					480
Ser	Lys	Ala	Met	Ile	Ala	Tyr	Trp	Thr	Asn	Phe	Ala	Lys	Thr	Gly	Asp
				485					490					495	
Pro	Asn	Met	Gly	Asp	Ser	Ala	Val	Pro	Thr	His	Trp	Glu	Pro	Tyr	Thr
			500					505					510		
Thr	Glu	Asn	Ser	Gly	Tyr	Leu	Glu	Ile	Thr	Lys	Lys	Met	Gly	Ser	Ser
		515					520					525			

Ser Met Lys Arg Ser Leu Arg Thr Asn Phe Leu Arg Tyr Trp Thr Leu
 530 535 540

Thr Tyr Leu Ala Leu Pro Thr Val Thr Asp Gln Glu Ala Thr Pro Val
 545 550 555 560

Pro Pro Thr Gly Asp Ser Glu Ala Thr Pro Val Pro Pro Thr Gly Asp
 565 570 575

Ser Glu Thr Ala Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro
 580 585 590

Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly
 595 600 605

Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro
 610 615 620

Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr
 625 630 635 640

Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala
 645 650 655

Pro Pro Val Pro Pro Thr Gly Asp Ala Gly Pro Pro Pro Val Pro Pro
 660 665 670

Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly
 675 680 685

Ala Pro Pro Val Thr Pro Thr Gly Asp Ser Glu Thr Ala Pro Val Pro
 690 695 700

Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser
 705 710 715 720

Glu Ala Ala Pro Val Pro Pro Thr Asp Asp Ser Lys Glu Ala Gln Met
 725 730 735

Pro Ala Val Ile Arg Phe
 740

<210> 92

<211> 467

<212> PRT

<213> Homo sapiens

<220>

<223> Pancreatic lipase related protein precursor;
 Accession NO: as of 29 August 2003: P54315

<400> 92

Met	Leu	Ile	Phe	Trp	Thr	Ile	Thr	Leu	Phe	Leu	Leu	Gly	Ala	Ala	Lys
1				5					10					15	
Gly	Lys	Glu	Val	Cys	Tyr	Glu	Asp	Leu	Gly	Cys	Phe	Ser	Asp	Thr	Glu
			20					25					30		
Pro	Trp	Gly	Gly	Thr	Ala	Ile	Arg	Pro	Leu	Lys	Ile	Leu	Pro	Trp	Ser
			35				40					45			
Pro	Glu	Lys	Ile	Gly	Thr	Arg	Phe	Leu	Leu	Tyr	Thr	Asn	Glu	Asn	Pro
	50					55					60				
Asn	Asn	Phe	Gln	Ile	Leu	Leu	Leu	Ser	Asp	Pro	Ser	Thr	Ile	Glu	Ala
65					70				75						80
Ser	Asn	Phe	Gln	Met	Asp	Arg	Lys	Thr	Arg	Phe	Ile	Ile	His	Gly	Phe
				85					90					95	
Ile	Asp	Lys	Gly	Asp	Glu	Ser	Trp	Val	Thr	Asp	Met	Cys	Lys	Lys	Leu
			100					105					110		
Phe	Glu	Val	Glu	Glu	Val	Asn	Cys	Ile	Cys	Val	Asp	Trp	Lys	Lys	Gly
		115					120					125			
Ser	Gln	Ala	Thr	Tyr	Thr	Gln	Ala	Ala	Asn	Asn	Val	Arg	Val	Val	Gly
		130					135				140				
Ala	Gln	Val	Ala	Gln	Met	Leu	Asp	Ile	Leu	Leu	Thr	Glu	Tyr	Ser	Tyr
145					150					155					160
Pro	Pro	Ser	Lys	Val	His	Leu	Ile	Gly	His	Ser	Leu	Gly	Ala	His	Val
				165					170					175	
Ala	Gly	Glu	Ala	Gly	Ser	Lys	Thr	Pro	Gly	Leu	Ser	Arg	Ile	Thr	Gly
			180					185					190		
Leu	Asp	Pro	Val	Glu	Ala	Ser	Phe	Glu	Ser	Thr	Pro	Glu	Glu	Val	Arg
		195					200					205			
Leu	Asp	Pro	Ser	Asp	Ala	Asp	Phe	Val	Asp	Val	Ile	His	Thr	Asp	Ala
	210					215					220				
Ala	Pro	Leu	Ile	Pro	Phe	Leu	Gly	Phe	Gly	Thr	Asn	Gln	Gln	Met	Gly
225					230					235					240
His	Leu	Asp	Phe	Phe	Pro	Asn	Gly	Gly	Glu	Ser	Met	Pro	Gly	Cys	Lys
				245					250					255	
Lys	Asn	Ala	Leu	Ser	Gln	Ile	Val	Asp	Leu	Asp	Gly	Ile	Trp	Ala	Gly
			260					265					270		
Thr	Arg	Asp	Phe	Val	Ala	Cys	Asn	His	Leu	Arg	Ser	Tyr	Lys	Tyr	Tyr
		275					280					285			

Leu Glu Ser Ile Leu Asn Pro Asp Gly Phe Ala Ala Tyr Pro Cys Thr
 290 295 300
 Ser Tyr Lys Ser Phe Glu Ser Asp Lys Cys Phe Pro Cys Pro Asp Gln
 305 310 315 320
 Gly Cys Pro Gln Met Gly His Tyr Ala Asp Lys Phe Ala Gly Arg Thr
 325 330 335
 Ser Glu Glu Gln Gln Lys Phe Phe Leu Asn Thr Gly Glu Ala Ser Asn
 340 345 350
 Phe Ala Arg Trp Arg Tyr Gly Val Ser Ile Thr Leu Ser Gly Arg Thr
 355 360 365
 Ala Thr Gly Gln Ile Lys Val Ala Leu Phe Gly Asn Lys Gly Asn Thr
 370 375 380
 His Gln Tyr Ser Ile Phe Arg Gly Ile Leu Lys Pro Gly Ser Thr His
 385 390 395 400
 Ser Tyr Glu Phe Asp Ala Lys Leu Asp Val Gly Thr Ile Glu Lys Val
 405 410 415
 Lys Phe Leu Trp Asn Asn Asn Val Ile Asn Pro Thr Leu Pro Lys Val
 420 425 430
 Gly Ala Thr Lys Ile Thr Val Gln Lys Gly Glu Glu Lys Thr Val Tyr
 435 440 445
 Asn Phe Cys Ser Glu Asp Thr Val Arg Glu Asp Thr Leu Leu Thr Leu
 450 455 460
 Thr Pro Cys
 465

<210> 93

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<223> Pancreatic lipase related protein 2 precursor;
 Accession NO: as of 29 August 2003: P54317

<400> 93

Met Leu Pro Pro Trp Thr Leu Gly Leu Leu Leu Leu Ala Thr Val Arg
 1 5 10 15
 Gly Lys Glu Val Cys Tyr Gly Gln Leu Gly Cys Phe Ser Asp Glu Lys
 20 25 30

Pro Trp Ala Gly Thr Leu Gln Arg Pro Val Lys Leu Leu Pro Trp Ser
 35 40 45
 Pro Glu Asp Ile Asp Thr Arg Phe Leu Leu Tyr Thr Asn Glu Asn Pro
 50 55 60
 Asn Asn Phe Gln Leu Ile Thr Gly Thr Glu Pro Asp Thr Ile Glu Ala
 65 70 75 80
 Ser Asn Phe Gln Leu Asp Arg Lys Thr Arg Phe Ile Ile His Gly Phe
 85 90 95
 Leu Asp Lys Ala Glu Asp Ser Trp Pro Ser Asp Met Cys Lys Lys Met
 100 105 110
 Phe Glu Val Glu Lys Val Asn Cys Ile Cys Val Asp Trp Arg His Gly
 115 120 125
 Ser Arg Ala Met Tyr Thr Gln Ala Val Gln Asn Ile Arg Val Val Gly
 130 135 140
 Ala Glu Thr Ala Phe Leu Ile Gln Ala Leu Ser Thr Gln Leu Gly Tyr
 145 150 155 160
 Ser Leu Glu Asp Val His Val Ile Gly His Ser Leu Gly Ala His Thr
 165 170 175
 Ala Ala Glu Ala Gly Arg Arg Leu Gly Gly Arg Val Gly Arg Ile Thr
 180 185 190
 Gly Leu Asp Pro Ala Gly Pro Cys Phe Gln Asp Glu Pro Glu Glu Val
 195 200 205
 Arg Leu Asp Pro Ser Asp Ala Val Phe Val Asp Val Ile His Thr Asp
 210 215 220
 Ser Ser Pro Ile Val Pro Ser Leu Gly Phe Gly Met Ser Gln Lys Val
 225 230 235 240
 Gly His Leu Asp Phe Phe Pro Asn Gly Gly Lys Glu Met Pro Gly Cys
 245 250 255
 Lys Lys Asn Val Leu Ser Thr Ile Thr Asp Ile Asp Gly Ile Trp Glu
 260 265 270
 Gly Ile Gly Gly Phe Val Ser Cys Asn His Leu Arg Ser Phe Glu Tyr
 275 280 285
 Tyr Ser Ser Ser Val Leu Asn Pro Asp Gly Phe Leu Gly Tyr Pro Cys
 290 295 300
 Ala Ser Tyr Asp Glu Phe Gln Glu Ser Lys Cys Phe Pro Cys Pro Ala
 305 310 315 320

Asn Phe Thr Ser Trp Arg Tyr Lys Val Ser Val Thr Leu Ser Gly Lys
355 360 365

Asn Ser Lys Gln Tyr Glu Ile Phe Lys Gly Ser Leu Lys Pro Asp Ala
385 390 395 400

Lys Val Lys Phe Leu Trp Asn Lys Arg Gly Ile Asn Leu Ser Glu Pro
420 425 430

Glu Tyr Asn Phe Cys Ser Ser Asp Thr Val Glu Glu Asn Val Leu Gln
450 455 460

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<210> 94
<211> 465
<212> PRT
<213> Homo sapiens
```

```
<400> 94
Met Leu Pro Leu Trp Thr Leu Ser Leu Leu Leu Gly Ala Val Ala Gly
1          5          10          15
```

Trp Ser Gly Ile Thr Glu Arg Pro Leu His Ile Leu Pro Trp Ser Pro
35 40 45

Lys Asp Val Asn Thr Arg Phe Leu Leu Tyr Thr Asn Glu Asn Pro Asn
50 55 60

Asn	Phe	Gln	Glu	Val	Ala	Ala	Asp	Ser	Ser	Ser	Ile	Ser	Gly	Ser	Asn	65	70	75	80
Phe	Lys	Thr	Asn	Arg	Lys	Thr	Arg	Phe	Ile	Ile	His	Gly	Phe	Ile	Asp	85	90	95	
Lys	Gly	Glu	Glu	Asn	Trp	Leu	Ala	Asn	Val	Cys	Lys	Asn	Leu	Phe	Lys	100	105	110	
Val	Glu	Ser	Val	Asn	Cys	Ile	Cys	Val	Asp	Trp	Lys	Gly	Gly	Ser	Arg	115	120	125	
Thr	Gly	Tyr	Thr	Gln	Ala	Ser	Gln	Asn	Ile	Arg	Ile	Val	Gly	Ala	Glu	130	135	140	
Val	Ala	Tyr	Phe	Val	Glu	Phe	Leu	Gln	Ser	Ala	Phe	Gly	Tyr	Ser	Pro	145	150	155	160
Ser	Asn	Val	His	Val	Ile	Gly	His	Ser	Leu	Gly	Ala	His	Ala	Ala	Gly	165	170	175	
Glu	Ala	Gly	Arg	Arg	Thr	Asn	Gly	Thr	Ile	Gly	Arg	Ile	Thr	Gly	Leu	180	185	190	
Asp	Pro	Ala	Glu	Pro	Cys	Phe	Gln	Gly	Thr	Pro	Glu	Leu	Val	Arg	Leu	195	200	205	
Asp	Pro	Ser	Asp	Ala	Lys	Phe	Val	Asp	Val	Ile	His	Thr	Asp	Gly	Ala	210	215	220	
Pro	Ile	Val	Pro	Asn	Leu	Gly	Phe	Gly	Met	Ser	Gln	Val	Val	Gly	His	225	230	235	240
Leu	Asp	Phe	Phe	Pro	Asn	Gly	Gly	Val	Glu	Met	Pro	Gly	Cys	Lys	Lys	245	250	255	
Asn	Ile	Leu	Ser	Gln	Ile	Val	Asp	Ile	Asp	Gly	Ile	Trp	Glu	Gly	Thr	260	265	270	
Arg	Asp	Phe	Ala	Ala	Cys	Asn	His	Leu	Arg	Ser	Tyr	Lys	Tyr	Tyr	Thr	275	280	285	
Asp	Ser	Ile	Val	Asn	Pro	Asp	Gly	Phe	Ala	Gly	Phe	Pro	Cys	Ala	Ser	290	295	300	
Tyr	Asn	Val	Phe	Thr	Ala	Asn	Lys	Cys	Phe	Pro	Cys	Pro	Ser	Gly	Gly	305	310	315	320
Cys	Pro	Gln	Met	Gly	His	Tyr	Ala	Asp	Arg	Tyr	Pro	Gly	Lys	Thr	Asn	325	330	335	
Asp	Val	Gly	Gln	Lys	Phe	Tyr	Leu	Asp	Thr	Gly	Asp	Ala	Ser	Asn	Phe	340	345	350	

Ala Arg Trp Arg Tyr Lys Val Ser Val Thr Leu Ser Gly Lys Lys Val
 355 360 365

Thr Gly His Ile Leu Val Ser Leu Phe Gly Asn Lys Gly Asn Ser Lys
 370 375 380

Gln Tyr Glu Ile Phe Lys Gly Thr Leu Lys Pro Asp Ser Thr His Ser
 385 390 395 400

Asn Glu Phe Asp Ser Asp Val Asp Val Gly Asp Leu Gln Met Val Lys
 405 410 415

Phe Ile Trp Tyr Asn Asn Val Ile Asn Pro Thr Leu Pro Arg Val Gly
 420 425 430

Ala Ser Lys Ile Ile Val Glu Thr Asn Val Gly Lys Gln Phe Asn Phe
 435 440 445

Cys Ser Pro Glu Thr Val Arg Glu Glu Val Leu Leu Thr Leu Thr Pro
 450 455 460

Cys
 465

<210> 95
 <211> 572
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Dihydropyrimidinase related protein-2;
 Accession NO: as of 29 August 2003: Q16555

<400> 95
 Met Ser Tyr Gln Gly Lys Lys Asn Ile Pro Arg Ile Thr Ser Asp Arg
 1 5 10 15
 Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
 20 25 30
 Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
 35 40 45
 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
 50 55 60
 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
 65 70 75 80
 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
 85 90 95

Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
 100 105 110
 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
 115 120 125
 Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
 130 135 140
 His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
 145 150 155 160
 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
 165 170 175
 Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
 180 185 190
 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
 195 200 205
 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
 210 215 220
 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
 225 230 235 240
 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
 245 250 255
 Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
 260 265 270
 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
 275 280 285
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Phe Val Thr Ser
 290 295 300
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
 305 310 315 320
 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe
 325 330 335
 Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
 340 345 350
 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
 355 360 365
 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
 370 375 380

Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
385 390 395 400

Ile Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
405 410 415

Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ser Leu Glu Tyr Asn
420 425 430

Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
435 440 445

Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly
450 455 460

Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys
465 470 475 480

Arg Ile Lys Ala Arg Ser Arg Leu Ala Glu Leu Arg Gly Val Pro Arg
485 490 495

Gly Leu Tyr Asp Gly Pro Val Cys Glu Val Ser Val Thr Pro Lys Thr
500 505 510

Val Thr Pro Ala Ser Ser Ala Lys Thr Ser Pro Ala Lys Gln Gln Ala
515 520 525

Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu Ser Gly Ala
530 535 540

Gln Ile Asp Asp Asn Ile Pro Arg Arg Thr Thr Gln Arg Ile Val Ala
545 550 555 560

Pro Pro Gly Gly Arg Ala Asn Ile Thr Ser Leu Gly
565 570

<210> 96

<211> 500

<212> PRT

<213> Homo sapiens

<220>

<223> 4-aminobutyrate aminotransferase, mitochondrial
Precursor; Accession NO: as of 29 August 2003: P80404

<400> 96

Met Ala Ser Met Leu Leu Ala Gln Arg Leu Ala Cys Ser Phe Gln His
1 5 10 15

Thr Tyr Arg Leu Leu Val Pro Gly Ser Arg His Ile Ser Gln Ala Ala
20 25 30

Ala Lys Val Asp Val Glu Phe Asp Tyr Asp Gly Pro Leu Met Lys Thr
 35 40 45
 Glu Val Pro Gly Pro Arg Ser Gln Glu Leu Met Lys Gln Leu Asn Ile
 50 55 60
 Ile Gln Asn Ala Glu Ala Val His Phe Phe Cys Asn Tyr Glu Glu Ser
 65 70 75 80
 Arg Gly Asn Tyr Leu Val Asp Val Asp Gly Asn Arg Met Leu Asp Leu
 85 90 95
 Tyr Ser Gln Ile Ser Ser Val Pro Ile Gly Tyr Ser Asp Pro Ala Leu
 100 105 110
 Val Lys Leu Ile Gln Gln Pro Gln Asn Ala Ser Met Phe Val Asn Arg
 115 120 125
 Pro Ala Leu Glu Ile Leu Pro Pro Glu Asn Phe Val Glu Lys Leu Arg
 130 135 140
 Gln Ser Leu Leu Ser Val Ala Pro Lys Gly Met Ser Gln Leu Ile Thr
 145 150 155 160
 Met Ala Cys Gly Ser Cys Ser Asn Glu Asn Ala Leu Lys Thr Ile Phe
 165 170 175
 Met Trp Tyr Arg Ser Lys Glu Arg Gly Gln Arg Gly Phe Ser Lys Glu
 180 185 190
 Glu Leu Glu Thr Cys Met Ile Asn Gln Ala Pro Trp Cys Pro Asp Tyr
 195 200 205
 Ser Ile Leu Ser Phe Met Gly Ser Phe His Gly Arg Thr Met Gly Cys
 210 215 220
 Leu Ala Thr Thr His Ser Lys Ala Ile His Lys Ile Asp Ile Pro Ser
 225 230 235 240
 Phe Asp Trp Pro Ile Ala Pro Phe Pro Arg Leu Lys Tyr Pro Leu Glu
 245 250 255
 Glu Phe Val Lys Glu Asn Gln Gln Glu Glu Ala Gly Cys Leu Glu Glu
 260 265 270
 Val Glu Asp Leu Ile Val Lys Tyr Arg Lys Lys Lys Lys Thr Val Ala
 275 280 285
 Gly Ile Ile Val Glu Pro Ile Gln Ser Glu Gly Gly Asp Asn His Ala
 290 295 300
 Ser Asp Asp Phe Phe Arg Lys Leu Arg Asp Ile Ala Arg Lys His Cys
 305 310 315 320

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<210> 97
<211> 423
<212> PRT
<213> Homo sapiens
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<220>
<223> Glycine amidiontransferase, mitochondrial
      Precursor; Accession NO: as of 29 August 2003: P50440
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<400> 97
Met Leu Arg Val Arg Cys Leu Arg Gly Gly Ser Arg Gly Ala Glu Ala
1          5          10         15
Val His Tyr Ile Gly Ser Arg Leu Gly Arg Thr Leu Thr Gly Trp Val
          20         25         30

```

Gln Arg Thr Phe Gln Ser Thr Gln Ala Ala Thr Ala Ser Ser Arg Asn
 35 40 45
 Ser Cys Ala Ala Asp Asp Lys Ala Thr Glu Pro Leu Pro Lys Asp Cys
 50 55 60
 Pro Val Ser Ser Tyr Asn Glu Trp Asp Pro Leu Glu Glu Val Ile Val
 65 70 75 80
 Gly Arg Ala Glu Asn Ala Cys Val Pro Pro Phe Thr Ile Glu Val Lys
 85 90 95
 Ala Asn Thr Tyr Glu Lys Tyr Trp Pro Phe Tyr Gln Lys Gln Gly Gly
 100 105 110
 His Tyr Phe Pro Lys Asp His Leu Lys Lys Ala Val Ala Glu Ile Glu
 115 120 125
 Glu Met Cys Asn Ile Leu Lys Thr Glu Gly Val Thr Val Arg Arg Pro
 130 135 140
 Asp Pro Ile Asp Trp Ser Leu Lys Tyr Lys Thr Pro Asp Phe Glu Ser
 145 150 155 160
 Thr Gly Leu Tyr Ser Ala Met Pro Arg Asp Ile Leu Ile Val Val Gly
 165 170 175
 Asn Glu Ile Ile Glu Ala Pro Met Ala Trp Arg Ser Arg Phe Phe Glu
 180 185 190
 Tyr Arg Ala Tyr Arg Ser Ile Ile Lys Asp Tyr Phe His Arg Gly Ala
 195 200 205
 Lys Trp Thr Thr Ala Pro Lys Pro Thr Met Ala Asp Glu Leu Tyr Asn
 210 215 220
 Gln Asp Tyr Pro Ile His Ser Val Glu Asp Arg His Lys Leu Ala Ala
 225 230 235 240
 Gln Gly Lys Phe Val Thr Thr Glu Phe Glu Pro Cys Phe Asp Ala Ala
 245 250 255
 Asp Phe Ile Arg Ala Gly Arg Asp Ile Phe Ala Gln Arg Ser Gln Val
 260 265 270
 Thr Asn Tyr Leu Gly Ile Glu Trp Met Arg Arg His Leu Ala Pro Asp
 275 280 285
 Tyr Arg Val His Ile Ile Ser Phe Lys Asp Pro Asn Pro Met His Ile
 290 295 300
 Asp Ala Thr Phe Asn Ile Ile Gly Pro Gly Ile Val Leu Ser Asn Pro
 305 310 315 320

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<210> 98
<211> 654
<212> PRT
<213> Homo sapiens
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<220>
<223> GRP 78; Accession NO: as of 29 August 2003: P11021

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<220>  
<221> modified_base  
<222> (302)  
<223> Variable amino acid
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<220>  
<221> modified_base  
<222> (329)  
<223> Variable amino acid
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<220>
<221> modified_base
<222> (344)
<223> Variable amino acid
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<220>
<221> modified_base
<222> (461)
<223> Variable amino acid
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<400> 98
Met Lys Leu Ser Leu Val Ala Ala Met Leu Leu Leu Leu Leu Ser Ala
1           5           10          15
```


Ala Arg Ala Lys Glu Glu Asp Met Gly Thr Val Val Ala Ile His Leu
 20 25 30
 Gly Thr Thr Tyr Pro Cys Val Gly Val Phe Lys Asn Gly Arg Met Glu
 35 40 45
 Ile Ile Ala Asn Asp Gln Gly Asn Arg Ile Met Pro Ser Tyr Val Ala
 50 55 60
 Phe Thr Pro Glu Gly Glu Cys Leu Ile Gly Asp Ala Ala Lys Asn Gln
 65 70 75 80
 Leu Thr Ser Asn Pro Lys Asn Thr Val Phe Asp Ala Lys Arg Leu Ile
 85 90 95
 Gly Arg Arg Trp His Asp Pro Ser Val Gln Gln Asp Ile Glu Phe Leu
 100 105 110
 Pro Phe Lys Val Val Glu Lys Asn Thr Lys Ser Tyr Ile Gln Ile Asp
 115 120 125
 Val Gly Gly Gly Gln Thr Lys Thr Phe Ala Pro Lys Glu Ile Ser Ala
 130 135 140
 Met Val Leu Thr Lys Met Lys Glu Asn Ala Glu Ala Tyr Leu Gly Lys
 145 150 155 160
 Val Thr His Ala Val Val Thr Ala Pro Ala Tyr Phe Asn Asp Ala Gln
 165 170 175
 Cys Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala Asp Leu Asn Val Met
 180 185 190
 Arg Ile Ile Asn Lys Pro Thr Ala Ala Ala Ile Ala Tyr Gly Leu Asp
 195 200 205
 Lys Arg Glu Gly Glu Lys Asn Ile Leu Val Phe Asp Leu Gly Gly Gly
 210 215 220
 Thr Phe Asp Val Ser Leu Leu Thr Ile Asp Asn Gly Val Phe Lys Val
 225 230 235 240
 Val Ala Thr Asn Gly Asp Thr Tyr Leu Gly Gly Glu Asp Phe Asp Gln
 245 250 255
 Arg Val Met Glu His Phe Ile Lys Leu Tyr Lys Lys Lys Thr Gly Lys
 260 265 270
 Asp Val Arg Lys Asp Asn Arg Ala Val Gln Lys Leu Trp Arg Lys Val
 275 280 285
 Glu Lys Ala Lys Arg Ala Leu Ser Ser Gln His Gln Ala Xaa Val Ile
 290 295 300

Glu Ile Glu Ser Phe Tyr Glu Gly Glu Asp Phe Ser Glu Thr Leu Thr
 305 310 315 320
 Gln Ala Lys Phe Glu Glu Leu Asn Xaa Asp Leu Phe Gln Ser Thr Met
 325 330 335
 Lys Pro Ser Gln Arg Ser Val Xaa Lys Val Leu Glu Asp Ser Asp Leu
 340 345 350
 Lys Lys Ser Asp Ile Asp Glu Thr Val Leu Val Gly Gly Phe Thr Gln
 355 360 365
 Ile Pro Lys Ile Gln Gln Leu Val Lys Glu Phe Phe Asn Gly Lys Glu
 370 375 380
 Leu Ser Arg Gly Ile Ser Pro Tyr Glu Ala Val Ala Tyr Gly Ala Ala
 385 390 395 400
 Val Gln Ala Gly Val Leu Ser Gly Asp Gln Asp Thr Gly Asp Leu Val
 405 410 415
 Leu Leu Asp Ile Cys Pro Leu Thr Leu Gly Ile Glu Thr Val Gly Gly
 420 425 430
 Val Met Thr Lys Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys
 435 440 445
 Ser Gln Ile Phe Ser Thr Ala Phe Asp Asn Gln Pro Xaa Thr Ile Lys
 450 455 460
 Val Tyr Glu Gly Lys Gln Pro Leu Thr Lys Asp Asn His Leu Leu Gly
 465 470 475 480
 Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Cys Gly Val Pro Gln
 485 490 495
 Ile Glu Val Thr Phe Glu Met Asp Val Ser Asp Ile Leu Gln Val Thr
 500 505 510
 Ala Lys Asp Lys Gly Thr Arg Tyr Lys Asn Lys Ile Thr Ile Thr Asn
 515 520 525
 Asp Gln Asn His Leu Thr Pro Glu Asp Ile Glu Arg Met Val Asn Asp
 530 535 540
 Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu Lys Glu Cys Thr Asp
 545 550 555 560
 Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr Ser Leu Lys Asn Gln Ile
 565 570 575
 Gly Asp Lys Glu Lys Leu Gly Gly Lys Leu Ser Ser Glu Asp Lys Glu
 580 585 590

Thr Met Glu Lys Thr Val Glu Glu Lys Thr Glu Trp Leu Glu Ser His
 595 600 605

Gln Asp Ala Asp Thr Glu Asp Phe Lys Ala Lys Lys Lys Glu Leu Glu
 610 615 620

Glu Ile Val Gln Pro Ile Ile Ser Lys Leu Tyr Gly Ser Ala Gly Pro
 625 630 635 640

Pro Pro Thr Gly Glu Glu Asp Thr Ala Glu Lys Asp Glu Leu
 645 650

<210> 99

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<223> Eukaryotic translation initiation factor 3 subunit 2;
 Accession NO: as of 29 August 2003: Q13347

<400> 99

Met Lys Pro Ile Leu Leu Gln Gly His Glu Arg Ser Ile Thr Gln Ile
 1 5 10 15

Lys Tyr Asn Arg Glu Gly Asp Leu Leu Phe Thr Val Ala Lys Asp Pro
 20 25 30

Ile Val Asn Val Trp Tyr Ser Val Asn Gly Glu Arg Leu Gly Thr Tyr
 35 40 45

Met Gly His Thr Gly Ala Val Trp Cys Val Asp Ala Asp Trp Asp Thr
 50 55 60

Lys His Val Leu Thr Gly Ser Ala Asp Asn Ser Cys Arg Leu Trp Asp
 65 70 75 80

Cys Glu Thr Gly Lys Gln Leu Ala Leu Leu Lys Thr Asn Ser Ala Val
 85 90 95

Arg Thr Cys Gly Phe Asp Phe Gly Gly Asn Ile Ile Met Phe Ser Thr
 100 105 110

Asp Lys Gln Met Gly Tyr Gln Cys Phe Val Ser Phe Phe Asp Leu Arg
 115 120 125

Asp Pro Ser Gln Ile Asp Asn Asn Glu Pro Tyr Met Lys Ile Pro Cys
 130 135 140

Asn Asp Ser Lys Ile Thr Ser Ala Val Trp Gly Pro Leu Gly Glu Cys
 145 150 155 160

192

Ile Ile Ala Gly His Glu Ser Gly Glu Leu Asn Gln Tyr Ser Ala Lys
165 170 175

Ser Gly Glu Val Leu Val Asn Val Lys Glu His Ser Arg Gln Ile Asn
180 185 190

Asp Ile Gln Leu Ser Arg Asp Met Thr Met Phe Val Thr Ala Ser Lys
195 200 205

Asp Asn Thr Ala Lys Leu Phe Asp Ser Thr Thr Leu Glu His Gln Lys
210 215 220

Thr Phe Arg Thr Glu Arg Pro Val Asn Ser Ala Ala Leu Ser Pro Asn
225 230 235 240

Tyr Asp His Val Val Leu Gly Gly Gly Gln Glu Ala Met Asp Val Thr
245 250 255

Thr Thr Ser Thr Arg Ile Gly Lys Phe Glu Ala Arg Phe Phe His Leu
260 265 270

Ala Phe Glu Glu Glu Phe Gly Arg Val Lys Gly His Phe Gly Pro Ile
275 280 285

Asn Ser Val Ala Phe His Pro Asp Gly Lys Ser Tyr Ser Ser Gly Gly
290 295 300

Glu Asp Gly Tyr Val Arg Ile His Tyr Phe Asp Pro Gln Tyr Phe Glu
305 310 315 320

Phe Glu Phe Glu Ala
325

<210> 100

<211> 572

<212> PRT

<213> Homo sapiens

<220>

<223> Dihydropyrimidinase related protein-2;

Accession NO: as of 29 August 2003: Q16555

<400> 100

Met Ser Tyr Gln Gly Lys Lys Asn Ile Pro Arg Ile Thr Ser Asp Arg
1 5 10 15

Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
20 25 30

Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
35 40 45

Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
 50 55 60
 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
 65 70 75 80
 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
 85 90 95
 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
 100 105 110
 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
 115 120 125
 Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
 130 135 140
 His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
 145 150 155 160
 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
 165 170 175
 Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
 180 185 190
 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
 195 200 205
 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
 210 215 220
 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
 225 230 235 240
 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
 245 250 255
 Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
 260 265 270
 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
 275 280 285
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Phe Val Thr Ser
 290 295 300
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
 305 310 315 320
 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe
 325 330 335

Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
 340 345 350
 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
 355 360 365
 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
 370 375 380
 Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
 385 390 395 400
 Ile Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
 405 410 415
 Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ser Leu Glu Tyr Asn
 420 425 430
 Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
 435 440 445
 Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly
 450 455 460
 Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys
 465 470 475 480
 Arg Ile Lys Ala Arg Ser Arg Leu Ala Glu Leu Arg Gly Val Pro Arg
 485 490 495
 Gly Leu Tyr Asp Gly Pro Val Cys Glu Val Ser Val Thr Pro Lys Thr
 500 505 510
 Val Thr Pro Ala Ser Ser Ala Lys Thr Ser Pro Ala Lys Gln Gln Ala
 515 520 525
 Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu Ser Gly Ala
 530 535 540
 Gln Ile Asp Asp Asn Ile Pro Arg Arg Thr Thr Gln Arg Ile Val Ala
 545 550 555 560
 Pro Pro Gly Gly Arg Ala Asn Ile Thr Ser Leu Gly
 565 570

<210> 101

<211> 561

<212> PRT

<213> Homo sapiens

<220>

<223> Phosphoglucomutase (EC 5.4.2.2) (Glucose phosphomutase)
 (PGM); Accession NO: as of 29 August 2003: P36871

<400> 101

Val	Lys	Ile	Val	Thr	Val	Lys	Thr	Gln	Ala	Tyr	Gln	Asp	Gln	Lys	Pro
1			5					10						15	
Gly	Thr	Ser	Gly	Leu	Arg	Lys	Arg	Val	Lys	Val	Phe	Gln	Ser	Ser	Ala
			20					25					30		
Asn	Tyr	Ala	Glu	Asn	Phe	Ile	Gln	Ser	Ile	Ile	Ser	Thr	Val	Glu	Pro
		35					40					45			
Ala	Gln	Arg	Gln	Glu	Ala	Thr	Leu	Val	Val	Gly	Gly	Asp	Gly	Arg	Phe
	50					55					60				
Tyr	Met	Lys	Glu	Ala	Ile	Gln	Leu	Ile	Ala	Arg	Ile	Ala	Ala	Ala	Asn
65					70				75						80
Gly	Ile	Gly	Arg	Leu	Val	Ile	Gly	Gln	Asn	Gly	Ile	Leu	Ser	Thr	Pro
				85					90					95	
Ala	Val	Ser	Cys	Ile	Ile	Arg	Lys	Ile	Lys	Ala	Ile	Gly	Gly	Ile	Ile
			100					105					110		
Leu	Thr	Ala	Ser	His	Asn	Pro	Gly	Gly	Pro	Asn	Gly	Asp	Phe	Gly	Ile
		115					120					125			
Lys	Phe	Asn	Ile	Ser	Asn	Gly	Gly	Pro	Ala	Pro	Glu	Ala	Ile	Thr	Asp
	130					135					140				
Lys	Ile	Phe	Gln	Ile	Ser	Lys	Thr	Ile	Glu	Glu	Tyr	Ala	Val	Cys	Pro
145					150					155					160
Asp	Leu	Lys	Val	Asp	Leu	Gly	Val	Leu	Gly	Lys	Gln	Gln	Phe	Asp	Leu
				165					170					175	
Glu	Asn	Lys	Phe	Lys	Pro	Phe	Thr	Val	Glu	Ile	Val	Asp	Ser	Val	Glu
			180					185					190		
Ala	Tyr	Ala	Thr	Met	Leu	Arg	Ser	Ile	Phe	Asp	Phe	Ser	Ala	Leu	Lys
		195					200					205			
Glu	Leu	Leu	Ser	Gly	Pro	Asn	Arg	Leu	Lys	Ile	Arg	Ile	Asp	Ala	Met
	210					215					220				
His	Gly	Val	Val	Gly	Pro	Tyr	Val	Lys	Lys	Ile	Leu	Cys	Glu	Glu	Leu
225					230					235					240
Gly	Ala	Pro	Ala	Asn	Ser	Ala	Val	Asn	Cys	Val	Pro	Leu	Glu	Asp	Phe
				245					250					255	
Gly	Gly	His	His	Pro	Asp	Pro	Asn	Leu	Thr	Tyr	Ala	Ala	Asp	Leu	Val
			260					265					270		

Glu Thr Met Lys Ser Gly Glu His Asp Phe Gly Ala Ala Phe Asp Gly
 275 280 285
 Asp Gly Asp Arg Asn Met Ile Leu Gly Lys His Gly Phe Phe Val Asn
 290 295 300
 Pro Ser Asp Ser Val Ala Val Ile Ala Ala Asn Ile Phe Ser Ile Pro
 305 310 315 320
 Tyr Phe Gln Gln Thr Gly Val Arg Gly Phe Ala Arg Ser Met Pro Thr
 325 330 335
 Ser Gly Ala Leu Asp Arg Val Ala Ser Ala Thr Lys Ile Ala Leu Tyr
 340 345 350
 Glu Thr Pro Thr Gly Trp Lys Phe Phe Gly Asn Leu Met Asp Ala Ser
 355 360 365
 Lys Leu Ser Leu Cys Gly Glu Glu Ser Phe Gly Thr Gly Ser Asp His
 370 375 380
 Ile Arg Glu Lys Asp Gly Leu Trp Ala Val Leu Ala Trp Leu Ser Ile
 385 390 395 400
 Leu Ala Thr Arg Lys Gln Ser Val Glu Asp Ile Leu Lys Asp His Trp
 405 410 415
 Gln Lys Tyr Gly Arg Asn Phe Phe Thr Arg Tyr Asp Tyr Glu Glu Val
 420 425 430
 Glu Ala Glu Gly Ala Asn Lys Met Met Lys Asp Leu Glu Ala Leu Met
 435 440 445
 Phe Asp Arg Ser Phe Val Gly Lys Gln Phe Ser Ala Asn Asp Lys Val
 450 455 460
 Tyr Thr Val Glu Lys Ala Asp Asn Phe Glu Tyr Ser Asp Pro Val Asp
 465 470 475 480
 Gly Ser Ile Ser Arg Asn Gln Gly Leu Arg Leu Ile Phe Thr Asp Gly
 485 490 495
 Ser Arg Ile Val Phe Arg Leu Ser Gly Thr Gly Ser Ala Gly Ala Thr
 500 505 510
 Ile Arg Leu Tyr Ile Asp Ser Tyr Glu Lys Asp Val Ala Lys Ile Asn
 515 520 525
 Gln Asp Pro Gln Val Met Leu Ala Pro Leu Ile Ser Ile Ala Leu Lys
 530 535 540
 Val Ser Gln Leu Gln Glu Arg Thr Gly Arg Thr Ala Pro Thr Val Ile
 545 550 555 560

Thr

<210> 102

<211> 263

<212> PRT

<213> Homo sapiens

<220>

<223> Proteasome subunit alpha type 1;

Accession NO: as of 29 August 2003: P25786

<400> 102

Met	Phe	Arg	Asn	Gln	Tyr	Asp	Asn	Asp	Val	Thr	Val	Trp	Ser	Pro	Gln
1				5					10					15	

Gly	Arg	Ile	His	Gln	Ile	Glu	Tyr	Ala	Met	Glu	Ala	Val	Lys	Gln	Gly
			20					25					30		

Ser	Ala	Thr	Val	Gly	Leu	Lys	Ser	Lys	Thr	His	Ala	Val	Leu	Val	Ala
		35					40					45			

Leu	Lys	Arg	Ala	Gln	Ser	Glu	Leu	Ala	Ala	His	Gln	Lys	Lys	Ile	Leu
	50					55					60				

His	Val	Asp	Asn	His	Ile	Gly	Ile	Ser	Ile	Ala	Gly	Leu	Thr	Ala	Asp
65					70					75					80

Ala	Arg	Leu	Leu	Cys	Asn	Phe	Met	Arg	Gln	Glu	Cys	Leu	Asp	Ser	Arg
				85					90					95	

Phe	Val	Phe	Asp	Arg	Pro	Leu	Pro	Val	Ser	Arg	Leu	Val	Ser	Leu	Ile
			100					105					110		

Gly	Ser	Lys	Thr	Gln	Ile	Pro	Thr	Gln	Arg	Tyr	Gly	Arg	Arg	Pro	Tyr
		115					120					125			

Gly	Val	Gly	Leu	Leu	Ile	Ala	Gly	Tyr	Asp	Asp	Met	Gly	Pro	His	Ile
	130					135					140				

Phe	Gln	Thr	Cys	Pro	Ser	Ala	Asn	Tyr	Phe	Asp	Cys	Arg	Ala	Met	Ser
145					150					155				160	

Ile	Gly	Ala	Arg	Ser	Gln	Ser	Ala	Arg	Thr	Tyr	Leu	Glu	Arg	His	Met
				165					170					175	

Ser	Glu	Phe	Met	Glu	Cys	Asn	Leu	Asn	Glu	Leu	Val	Lys	His	Gly	Leu
			180					185					190		

Arg	Ala	Leu	Arg	Glu	Thr	Leu	Pro	Ala	Glu	Gln	Asp	Leu	Thr	Thr	Lys
		195					200						205		

Asn Val Ser Ile Gly Ile Val Gly Lys Asp Leu Glu Phe Thr Ile Tyr
 210 215 220

Asp Asp Asp Asp Val Ser Pro Phe Leu Glu Gly Leu Glu Glu Arg Pro
 225 230 235 240

Gln Arg Lys Ala Gln Pro Ala Gln Pro Ala Asp Glu Pro Ala Glu Lys
 245 250 255

Ala Asp Glu Pro Met Glu His
 260

<210> 103

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<223> Heat shock 27 kDa protein;

Accession NO: as of 29 August 2003: P04792

<400> 103

Met Thr Glu Arg Arg Val Pro Phe Ser Leu Leu Arg Gly Pro Ser Trp
 1 5 10 15

Asp Pro Phe Arg Asp Trp Tyr Pro His Ser Arg Leu Phe Asp Gln Ala
 20 25 30

Phe Gly Leu Pro Arg Leu Pro Glu Glu Trp Ser Gln Trp Leu Gly Gly
 35 40 45

Ser Ser Trp Pro Gly Tyr Val Arg Pro Leu Pro Pro Ala Ala Ile Glu
 50 55 60

Ser Pro Ala Val Ala Ala Pro Ala Tyr Ser Arg Ala Leu Ser Arg Gln
 65 70 75 80

Leu Ser Ser Gly Val Ser Glu Ile Arg His Thr Ala Asp Arg Trp Arg
 85 90 95

Val Ser Leu Asp Val Asn His Phe Ala Pro Asp Glu Leu Thr Val Lys
 100 105 110

Thr Lys Asp Gly Val Val Glu Ile Thr Gly Lys His Glu Glu Arg Gln
 115 120 125

Asp Glu His Gly Tyr Ile Ser Arg Cys Phe Thr Arg Lys Tyr Thr Leu
 130 135 140

Pro Pro Gly Val Asp Pro Thr Gln Val Ser Ser Ser Leu Ser Pro Glu
 145 150 155 160

Gly Thr Leu Thr Val Glu Ala Pro Met Pro Lys Leu Ala Thr Gln Ser
 165 170 175

Asn Glu Ile Thr Ile Pro Val Thr Phe Glu Ser Arg Ala Gln Leu Gly
 180 185 190

Gly Pro Glu Ala Ala Lys Ser Asp Glu Thr Ala Ala Lys
 195 200 205

<210> 104

<211> 868

<212> PRT

<213> Homo sapiens

<220>

<223> Programmed cell death 6 interacting protein (Hp95);
 Accession NO: as of 29 August 2003: Q8WUM4

<400> 104

Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp
 1 5 10 15

Leu Ala Lys Pro Leu Val Lys Phe Ile Gln Gln Thr Tyr Pro Ser Gly
 20 25 30

Gly Glu Glu Gln Ala Gln Tyr Cys Arg Ala Ala Glu Glu Leu Ser Lys
 35 40 45

Leu Arg Arg Ala Ala Val Gly Arg Pro Leu Asp Lys His Glu Gly Ala
 50 55 60

Leu Glu Thr Leu Leu Arg Tyr Tyr Asp Gln Ile Cys Ser Ile Glu Pro
 65 70 75 80

Lys Phe Pro Phe Ser Glu Asn Gln Ile Cys Leu Thr Phe Thr Trp Lys
 85 90 95

Asp Ala Phe Asp Lys Gly Ser Leu Phe Gly Gly Ser Val Lys Leu Ala
 100 105 110

Leu Ala Ser Leu Gly Tyr Glu Lys Ser Cys Val Leu Phe Asn Cys Ala
 115 120 125

Ala Leu Ala Ser Gln Ile Ala Ala Glu Gln Asn Leu Asp Asn Asp Glu
 130 135 140

Gly Leu Lys Ile Ala Ala Lys His Tyr Gln Phe Ala Ser Gly Ala Phe
 145 150 155 160

Leu His Ile Lys Glu Thr Val Leu Ser Ala Leu Ser Arg Glu Pro Thr
 165 170 175

Val Asp Ile Ser Pro Asp Thr Val Gly Thr Leu Ser Leu Ile Met Leu
 180 185 190
 Ala Gln Ala Gln Glu Val Phe Phe Leu Lys Ala Thr Arg Asp Lys Met
 195 200 205
 Lys Asp Ala Ile Ile Ala Lys Leu Ala Asn Gln Ala Ala Asp Tyr Phe
 210 215 220
 Gly Asp Ala Phe Lys Gln Cys Gln Tyr Lys Asp Thr Leu Pro Lys Glu
 225 230 235 240
 Val Phe Pro Val Leu Ala Ala Lys His Cys Ile Met Gln Ala Asn Ala
 245 250 255
 Glu Tyr His Gln Ser Ile Leu Ala Lys Gln Gln Lys Lys Phe Gly Glu
 260 265 270
 Glu Ile Ala Arg Leu Gln His Ala Ala Glu Leu Ile Lys Thr Val Ala
 275 280 285
 Ser Arg Tyr Asp Glu Tyr Val Asn Val Lys Asp Phe Ser Asp Lys Ile
 290 295 300
 Asn Arg Ala Leu Ala Ala Lys Lys Asp Asn Asp Phe Ile Tyr His
 305 310 315 320
 Asp Arg Val Pro Asp Leu Lys Asp Leu Asp Pro Ile Gly Lys Ala Thr
 325 330 335
 Leu Val Lys Ser Thr Pro Val Asn Val Pro Ile Ser Gln Lys Phe Thr
 340 345 350
 Asp Leu Phe Glu Lys Met Val Pro Val Ser Val Gln Gln Ser Leu Ala
 355 360 365
 Ala Tyr Asn Gln Arg Lys Ala Asp Leu Val Asn Arg Ser Ile Ala Gln
 370 375 380
 Met Arg Glu Ala Thr Thr Leu Ala Asn Gly Val Leu Ala Ser Leu Asn
 385 390 395 400
 Leu Pro Ala Ala Ile Glu Asp Val Ser Gly Asp Thr Val Pro Gln Ser
 405 410 415
 Ile Leu Thr Lys Ser Arg Ser Val Ile Glu Gln Gly Gly Ile Gln Thr
 420 425 430
 Val Asp Gln Leu Ile Lys Glu Leu Pro Glu Leu Leu Gln Arg Asn Arg
 435 440 445
 Glu Ile Leu Asp Glu Ser Leu Arg Leu Leu Asp Glu Glu Glu Ala Thr
 450 455 460

Asp	Asn	Asp	Leu	Arg	Ala	Lys	Phe	Lys	Glu	Arg	Trp	Gln	Arg	Thr	Pro	465	470	475	480
Ser	Asn	Glu	Leu	Tyr	Lys	Pro	Leu	Arg	Ala	Glu	Gly	Thr	Asn	Phe	Arg	485	490	495	
Thr	Val	Leu	Asp	Lys	Ala	Val	Gln	Ala	Asp	Gly	Gln	Val	Lys	Glu	Cys	500	505	510	
Tyr	Gln	Ser	His	Arg	Asp	Thr	Ile	Val	Leu	Leu	Cys	Lys	Pro	Glu	Pro	515	520	525	
Glu	Leu	Asn	Ala	Ala	Ile	Pro	Ser	Ala	Asn	Pro	Ala	Lys	Thr	Met	Gln	530	535	540	
Gly	Ser	Glu	Val	Val	Asn	Val	Leu	Lys	Ser	Leu	Leu	Ser	Asn	Leu	Asp	545	550	555	560
Glu	Val	Lys	Lys	Glu	Arg	Glu	Gly	Leu	Glu	Asn	Asp	Leu	Lys	Ser	Val	565	570	575	
Asn	Phe	Asp	Met	Thr	Ser	Lys	Phe	Leu	Thr	Ala	Leu	Ala	Gln	Asp	Gly	580	585	590	
Val	Ile	Asn	Glu	Glu	Ala	Leu	Ser	Val	Thr	Glu	Leu	Asp	Arg	Val	Tyr	595	600	605	
Gly	Gly	Leu	Thr	Thr	Lys	Val	Gln	Glu	Ser	Leu	Lys	Lys	Gln	Glu	Gly	610	615	620	
Leu	Leu	Lys	Asn	Ile	Gln	Val	Ser	His	Gln	Glu	Phe	Ser	Lys	Met	Lys	625	630	635	640
Gln	Ser	Asn	Asn	Glu	Ala	Asn	Leu	Arg	Glu	Glu	Val	Leu	Lys	Asn	Leu	645	650	655	
Ala	Thr	Ala	Tyr	Asp	Asn	Phe	Val	Glu	Leu	Val	Ala	Asn	Leu	Lys	Glu	660	665	670	
Gly	Thr	Lys	Phe	Tyr	Asn	Glu	Leu	Thr	Glu	Ile	Leu	Val	Arg	Phe	Gln	675	680	685	
Asn	Lys	Cys	Ser	Asp	Ile	Val	Phe	Ala	Arg	Lys	Thr	Glu	Arg	Asp	Glu	690	695	700	
Leu	Leu	Lys	Asp	Leu	Gln	Gln	Ser	Ile	Ala	Arg	Glu	Pro	Ser	Ala	Pro	705	710	715	720
Ser	Ile	Pro	Thr	Pro	Ala	Tyr	Gln	Ser	Ser	Pro	Ala	Gly	Gly	His	Ala	725	730	735	
Pro	Thr	Pro	Pro	Thr	Pro	Ala	Pro	Arg	Thr	Met	Pro	Pro	Thr	Lys	Pro	740	745	750	

Gln Pro Pro Ala Arg Pro Pro Pro Pro Val Leu Pro Ala Asn Arg Ala
755 760 765

Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro
770 775 780

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly
785 790 795 800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro
805 810 815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro
820 825 830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly
835 840 845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr
850 855 860

Tyr Pro Gln Gln
865

<210> 105

<211> 280

<212> PRT

<213> Homo sapiens

<220>

<223> Similar to four and a half LIM domains 3;
Accession NO: as of 29 August 2003: Q9BVA2

<400> 105

Met Ser Glu Ser Phe Asp Cys Ala Lys Cys Asn Glu Ser Leu Tyr Gly
1 5 10 15

Arg Lys Tyr Ile Gln Thr Asp Ser Gly Pro Tyr Cys Val Pro Cys Tyr
20 25 30

Asp Asn Thr Phe Ala Asn Thr Cys Ala Glu Cys Gln Gln Leu Ile Gly
35 40 45

His Asp Ser Arg Glu Leu Phe Tyr Glu Asp Arg His Phe His Glu Gly
50 55 60

Cys Phe Arg Cys Cys Arg Cys Gln Arg Ser Leu Ala Asp Glu Pro Phe
65 70 75 80

Thr Cys Gln Asp Ser Glu Leu Leu Cys Asn Asp Cys Tyr Cys Ser Ala
85 90 95

Phe Ser Ser Gln Cys Ser Ala Cys Gly Glu Thr Val Met Pro Gly Ser
 100 105 110
 Arg Lys Leu Glu Tyr Gly Gly Gln Thr Trp His Glu His Cys Phe Leu
 115 120 125
 Cys Ser Gly Cys Glu Gln Pro Leu Gly Ser Arg Ser Phe Val Pro Asp
 130 135 140
 Lys Gly Ala His Tyr Cys Val Pro Cys Tyr Glu Asn Lys Phe Ala Pro
 145 150 155 160
 Arg Cys Ala Arg Cys Ser Lys Thr Leu Thr Gln Gly Gly Val Thr Tyr
 165 170 175
 Arg Asp Gln Pro Trp His Arg Glu Cys Leu Val Cys Thr Gly Cys Gln
 180 185 190
 Thr Pro Leu Ala Gly Gln Gln Phe Thr Ser Arg Asp Glu Asp Pro Tyr
 195 200 205
 Cys Val Ala Cys Phe Gly Glu Leu Phe Ala Pro Lys Cys Ser Ser Cys
 210 215 220
 Lys Arg Pro Ile Val Gly Leu Gly Gly Gly Lys Tyr Val Ser Phe Glu
 225 230 235 240
 Asp Arg His Trp His His Asn Cys Phe Ser Cys Ala Arg Cys Ser Thr
 245 250 255
 Ser Leu Val Gly Gln Gly Phe Val Pro Asp Gly Asp Gln Val Leu Cys
 260 265 270
 Gln Gly Cys Ser Gln Ala Gly Pro
 275 280

<210> 106

<211> 280

<212> PRT

<213> Homo sapiens

<220>

<223> Skeletal muscle LIM-protein 2 (SLIM 2);
 Accession NO: as of 29 August 2003: Q13643

<400> 106

Met Ser Glu Ser Phe Asp Cys Ala Lys Cys Asn Glu Ser Leu Tyr Gly
 1 5 10 15
 Arg Lys Tyr Ile Gln Thr Asp Ser Gly Pro Tyr Cys Val Pro Cys Tyr
 20 25 30

Asp Asn Thr Phe Ala Asn Thr Cys Ala Glu Cys Gln Gln Leu Ile Gly
 35 40 45
 His Asp Ser Arg Glu Leu Phe Tyr Glu Asp Arg His Phe His Glu Gly
 50 55 60
 Cys Phe Arg Cys Cys Arg Cys Gln Arg Ser Leu Ala Asp Glu Pro Phe
 65 70 75 80
 Thr Arg Gln Asp Ser Glu Leu Leu Cys Asn Asp Cys Tyr Cys Ser Ala
 85 90 95
 Phe Ser Ser Gln Cys Ser Ala Cys Gly Glu Thr Val Met Pro Gly Ser
 100 105 110
 Arg Lys Leu Glu Tyr Gly Gly Gln Thr Trp His Glu His Cys Phe Leu
 115 120 125
 Cys Ile Gly Cys Glu Gln Pro Leu Gly Ser Arg Pro Phe Val Pro Asp
 130 135 140
 Lys Gly Ala His Tyr Cys Val Pro Cys Tyr Glu Asn Asn Phe Ala Pro
 145 150 155 160
 Arg Cys Ala Arg Cys Thr Lys Thr Leu Thr Gln Gly Gly Leu Thr Tyr
 165 170 175
 Arg Asp Leu Pro Trp His Pro Lys Cys Leu Val Cys Thr Gly Cys Gln
 180 185 190
 Thr Pro Leu Ala Gly Gln Gln Phe Thr Ser Arg Asp Glu Asp Pro Tyr
 195 200 205
 Cys Val Ala Cys Phe Gly Glu Leu Phe Ala Pro Lys Cys Ser Ser Cys
 210 215 220
 Lys Arg Pro Ile Val Gly Leu Gly Gly Gly Lys Tyr Val Ser Phe Glu
 225 230 235 240
 Asp Arg His Trp His His Asn Cys Phe Thr Cys Asp Arg Cys Ser Asn
 245 250 255
 Ser Leu Val Gly Gln Gly Phe Val Pro Asp Gly Asp Gln Val Leu Cys
 260 265 270
 Gln Gly Cys Ser Gln Ala Gly Pro
 275 280

<210> 107

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<223> Cytochrome b5; Accession NO: as of
29 August 2003: P00167

<400> 107

Ala Glu Gln Ser Asp Glu Ala Val Lys Tyr Tyr Thr Leu Glu Glu Ile
1 5 10 15

Gln Lys His Asn His Ser Lys Ser Thr Trp Leu Ile Leu His His Lys
20 25 30

Val Tyr Asp Leu Thr Lys Phe Leu Glu Glu His Pro Gly Gly Glu Glu
35 40 45

Val Leu Arg Glu Gln Ala Gly Gly Asp Ala Thr Glu Asn Phe Glu Asp
50 55 60

Val Gly His Ser Thr Asp Ala Arg Glu Met Ser Lys Thr Phe Ile Ile
65 70 75 80

Gly Glu Leu His Pro Asp Asp Arg Pro Lys Leu Asn Lys Pro Pro Glu
85 90 95

Thr Leu Ile Thr Thr Ile Asp Ser Ser Ser Ser Trp Trp Thr Asn Trp
100 105 110

Val Ile Pro Ala Ile Ser Ala Val Ala Val Ala Leu Met Tyr Arg Leu
115 120 125

Tyr Met Ala Glu Asp
130

<210> 108

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<223> Pancreatitis-associated protein 1 precursor;
Accession NO: as of 29 August 2003: Q06141

<400> 108

Met Leu Pro Pro Met Ala Leu Pro Ser Val Ser Trp Met Leu Leu Ser
1 5 10 15

Cys Leu Met Leu Leu Ser Gln Val Gln Gly Glu Glu Pro Gln Arg Glu
20 25 30

Leu Pro Ser Ala Arg Ile Arg Cys Pro Lys Gly Ser Lys Ala Tyr Gly
35 40 45

Ser His Cys Tyr Ala Leu Phe Leu Ser Pro Lys Ser Trp Thr Asp Ala
 50 55 60

Asp Leu Ala Cys Gln Lys Arg Pro Ser Gly Asn Leu Val Ser Val Leu
 65 70 75 80

Ser Gly Ala Glu Gly Ser Phe Val Ser Ser Leu Val Lys Ser Ile Gly
 85 90 95

Asn Ser Tyr Ser Tyr Val Trp Ile Gly Leu His Asp Pro Thr Gln Gly
 100 105 110

Thr Glu Pro Asn Gly Glu Gly Trp Glu Trp Ser Ser Ser Asp Val Met
 115 120 125

Asn Tyr Phe Ala Trp Glu Arg Asn Pro Ser Thr Ile Ser Ser Pro Gly
 130 135 140

His Cys Ala Ser Leu Ser Arg Ser Thr Ala Phe Leu Arg Trp Lys Asp
 145 150 155 160

Tyr Asn Cys Asn Val Arg Leu Pro Tyr Val Cys Lys Phe Thr Asp
 165 170 175

<210> 109

<211> 1028

<212> PRT

<213> Homo sapiens

<220>

<223> Collagen alpha 1(VI) chain precursor;
 Accession NO: as of 29 August 2003: P12109

<400> 109

Met Arg Ala Ala Arg Ala Leu Leu Pro Leu Leu Leu Gln Ala Cys Trp
 1 5 10 15

Thr Ala Ala Gln Asp Glu Pro Glu Thr Pro Arg Ala Val Ala Phe Gln
 20 25 30

Asp Cys Pro Val Asp Leu Phe Phe Val Leu Asp Thr Ser Glu Ser Val
 35 40 45

Ala Leu Arg Leu Lys Pro Tyr Gly Ala Leu Val Asp Lys Val Lys Ser
 50 55 60

Phe Thr Lys Arg Phe Ile Asp Asn Leu Arg Asp Arg Tyr Tyr Arg Cys
 65 70 75 80

Asp Arg Asn Leu Val Trp Asn Ala Gly Ala Leu His Tyr Ser Asp Glu
 85 90 95

Val Glu Ile Ile Gln Gly Leu Thr Arg Met Pro Gly Gly Arg Asp Ala
 100 105 110
 Leu Lys Ser Ser Val Asp Ala Val Lys Tyr Phe Gly Lys Gly Thr Tyr
 115 120 125
 Thr Asp Cys Ala Ile Lys Lys Gly Leu Glu Gln Leu Leu Val Gly Gly
 130 135 140
 Ser His Leu Lys Glu Asn Lys Tyr Leu Ile Val Val Thr Asp Gly His
 145 150 155 160
 Pro Leu Glu Gly Tyr Lys Glu Pro Cys Gly Gly Leu Glu Asp Ala Val
 165 170 175
 Asn Glu Ala Lys His Leu Gly Val Lys Val Phe Ser Val Ala Ile Thr
 180 185 190
 Pro Asp His Leu Glu Pro Arg Leu Ser Ile Ile Ala Thr Asp His Thr
 195 200 205
 Tyr Arg Arg Asn Phe Thr Ala Ala Asp Trp Gly Gln Ser Arg Asp Ala
 210 215 220
 Glu Glu Ala Ile Ser Gln Thr Ile Asp Thr Ile Val Asp Met Ile Lys
 225 230 235 240
 Asn Asn Val Glu Gln Val Cys Cys Ser Phe Glu Cys Gln Pro Ala Arg
 245 250 255
 Gly Pro Pro Gly Leu Arg Gly Asp Pro Gly Phe Glu Gly Glu Arg Gly
 260 265 270
 Lys Pro Gly Leu Pro Gly Glu Lys Gly Glu Ala Gly Asp Pro Gly Arg
 275 280 285
 Pro Gly Asp Leu Gly Pro Val Gly Tyr Gln Gly Met Lys Gly Glu Lys
 290 295 300
 Gly Ser Arg Gly Glu Lys Gly Ser Arg Gly Pro Lys Gly Tyr Lys Gly
 305 310 315 320
 Glu Lys Gly Lys Arg Gly Ile Asp Gly Val Asp Gly Val Lys Gly Glu
 325 330 335
 Met Gly Tyr Pro Gly Leu Pro Gly Cys Lys Gly Ser Pro Gly Phe Asp
 340 345 350
 Gly Ile Gln Gly Pro Pro Gly Pro Lys Gly Asp Pro Gly Ala Phe Gly
 355 360 365
 Leu Lys Gly Glu Lys Gly Glu Pro Gly Ala Asp Gly Glu Ala Gly Arg
 370 375 380

Pro Gly Ala Arg Gly Pro Ser Gly Asp Glu Gly Pro Ala Gly Glu Pro
 385 390 395 400
 Gly Pro Pro Gly Glu Lys Gly Glu Ala Gly Asp Glu Gly Asn Pro Gly
 405 410 415
 Pro Asp Gly Ala Pro Gly Glu Arg Gly Gly Pro Gly Glu Arg Gly Pro
 420 425 430
 Arg Gly Thr Pro Gly Pro Arg Gly Pro Arg Gly Asp Pro Gly Glu Ala
 435 440 445
 Gly Pro Gln Gly Asp Gln Gly Arg Glu Gly Pro Val Gly Val Pro Gly
 450 455 460
 Asp Pro Gly Glu Ala Gly Pro Ile Gly Pro Lys Gly Tyr Arg Gly Asp
 465 470 475 480
 Glu Gly Pro Pro Gly Ser Glu Gly Ala Arg Gly Ala Pro Gly Pro Ala
 485 490 495
 Gly Pro Pro Gly Asp Pro Gly Leu Met Gly Glu Arg Gly Glu Asp Gly
 500 505 510
 Pro Ala Gly Asn Gly Thr Glu Gly Phe Pro Gly Phe Pro Gly Tyr Pro
 515 520 525
 Gly Asn Arg Gly Ala Pro Gly Ile Asn Gly Thr Lys Gly Tyr Pro Gly
 530 535 540
 Leu Lys Gly Asp Glu Gly Glu Ala Gly Asp Pro Gly Asp Asp Asn Asn
 545 550 555 560
 Asp Ile Ala Pro Arg Gly Val Lys Gly Ala Lys Gly Tyr Arg Gly Pro
 565 570 575
 Glu Gly Pro Gln Gly Pro Pro Gly His Gln Gly Pro Pro Gly Pro Asp
 580 585 590
 Glu Cys Glu Ile Leu Asp Ile Ile Met Lys Met Cys Ser Cys Cys Glu
 595 600 605
 Cys Lys Cys Gly Pro Ile Asp Leu Leu Phe Val Leu Asp Ser Ser Glu
 610 615 620
 Ser Ile Gly Leu Gln Asn Phe Glu Ile Ala Lys Asp Phe Val Val Lys
 625 630 635 640
 Val Ile Asp Arg Leu Ser Arg Asp Glu Leu Val Lys Phe Glu Pro Gly
 645 650 655
 Gln Ser Tyr Ala Gly Val Val Gln Tyr Ser His Ser Gln Met Gln Glu
 660 665 670

His Val Ser Leu Arg Ser Pro Ser Ile Arg Asn Val Gln Glu Leu Lys
 675 680 685
 Glu Ala Ile Lys Ser Leu Gln Trp Met Ala Gly Gly Thr Phe Thr Gly
 690 695 700
 Glu Ala Leu Gln Tyr Thr Arg Asp Gln Leu Leu Pro Pro Ser Pro Asn
 705 710 715 720
 Asn Arg Ile Ala Leu Val Ile Thr Asp Gly Arg Ser Asp Thr Gln Arg
 725 730 735
 Asp Thr Thr Pro Leu Asn Val Leu Cys Ser Pro Gly Ile Gln Val Val
 740 745 750
 Ser Val Gly Ile Lys Asp Val Phe Asp Phe Ile Pro Gly Ser Asp Gln
 755 760 765
 Leu Asn Val Ile Ser Cys Gln Gly Leu Ala Pro Ser Gln Gly Arg Pro
 770 775 780
 Gly Leu Ser Leu Val Lys Glu Asn Tyr Ala Glu Leu Leu Glu Asp Ala
 785 790 795 800
 Phe Leu Lys Asn Val Thr Ala Gln Ile Cys Ile Asp Lys Lys Cys Pro
 805 810 815
 Asp Tyr Thr Cys Pro Ile Thr Phe Ser Ser Pro Ala Asp Ile Thr Ile
 820 825 830
 Leu Leu Asp Gly Ser Ala Ser Val Gly Ser His Asn Phe Asp Thr Thr
 835 840 845
 Lys Arg Phe Ala Lys Arg Leu Ala Glu Arg Phe Leu Thr Ala Gly Arg
 850 855 860
 Thr Asp Pro Ala His Asp Val Arg Val Ala Val Val Gln Tyr Ser Gly
 865 870 875 880
 Thr Gly Gln Gln Arg Pro Glu Arg Ala Ser Leu Gln Phe Leu Gln Asn
 885 890 895
 Tyr Thr Ala Leu Ala Ser Ala Val Asp Ala Met Asp Phe Ile Asn Asp
 900 905 910
 Ala Thr Asp Val Asn Asp Ala Leu Gly Tyr Val Thr Arg Phe Tyr Arg
 915 920 925
 Glu Ala Ser Ser Gly Ala Ala Lys Lys Arg Leu Leu Leu Phe Ser Asp
 930 935 940
 Gly Asn Ser Gln Gly Ala Thr Pro Ala Ala Ile Glu Lys Ala Val Gln
 945 950 955 960

210

Glu Ala Gln Arg Ala Gly Ile Glu Ile Phe Val Val Val Val Gly Arg
965 970 975
Gln Val Asn Glu Pro His Ile Arg Val Leu Val Thr Gly Lys Thr Ala
980 985 990
Glu Tyr Asp Val Pro Tyr Gly Glu Ser His Leu Phe Arg Val Pro Ser
995 1000 1005
Tyr Gln Ala Leu Leu Arg Gly Val Phe His Gln Thr Val Ser Arg
1010 1015 1020
Lys Val Ala Leu Gly
1025

<210> 110
<211> 338
<212> PRT
<213> Homo sapiens

<220>
<223> Lumican precursor; Accession NO: as of
29 August 2003: P51884

<400> 110
Met Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr
1 5 10 15
Ser Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln
20 25 30
Ser Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro
35 40 45
Ser Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val
50 55 60
Pro Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His
65 70 75 80
Ile Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile
85 90 95
Leu Asp His Asn Leu Leu Glu Asn Ser Lys Ile Lys Gly Arg Val Phe
100 105 110
Ser Lys Leu Lys Gln Leu Lys Lys Leu His Ile Asn His Asn Asn Leu
115 120 125
Thr Glu Ser Val Gly Pro Leu Pro Lys Ser Leu Glu Asp Leu Gln Leu
130 135 140

